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PERSONAL.

Mr. A. M. Parent has been appointed Manager of the works of the Pullman Palace Car Co., Chicago, Ill.

Mr. F. C. Finkle, of San Bernardino, Cal., has been appointed Chief Engineer of the Redlands Electric Light & Power Co., Redlands, Cal.

Mr. F. S. Higbid has been appointed Roadmaster of the Panama R. R., to succeed Mr. R. G. Ward, with headquarters at Colon, Columbia.

Mr. Richard Caffrey, General Roadmaster of the Lehigh Valley R. R., with headquarters at South Bethlehem, Pa., has been appointed Engineer of Maintenance of Way.

Mr. John E. Davis, civil engineer, of Oskaloosa, Ia., was married, Sept. 28, to Miss Laura A. Gunn, of that city. Mr. Davis was formerly City Engineer of Oskaloosa.

Mr. W. S. Huyette, contracting engineer for Wickes Bros., Saginaw, Mich., stationary and marine boiler makers, has opened an office at 1214 Marquette Building, Chicago.

Mr. Elwood Mead, M. Am. Soc. C. E., State Engineer of Wyoming, has been studying irrigation in Montana in connection with an investigation being carried on by the U. S. Department of Agriculture.

Mr. Albert S. Crane, Jun. M. Am. Soc. C. E., Assistant Engineer in the Department of Sewers, New York city, has resigned to accept the position of Assistant Engineer of the American Lake Superior Power Co., Sault Ste. Marie, Mich.

Mr. W. P. Brown, M. Am. Soc. C. E., has assumed charge of the New York office of the King Bridge Co., located at 501 Fifth Ave. Mr. Brown has been connected with the King Bridge Co. for a number of years at their home office in Cleveland, O.

Mr. G. R. Joughins, formerly Superintendent of Motive Power of the Norfolk & Southern R. R., with office at Berkeley, Va., has been appointed Mechanical Superintendent of the Intercolonial Ry., with headquarters at Moncton, N. B.

Prof. Edgar W. Bass, Professor of Mathematics in the United States Military Academy at West Point, has been placed on the retired list. Professor Bass graduated at West Point in the class of 1868. He was appointed Professor of Mathematics ten years later, and has held the position ever since.

Mr. Andrew C. Cunningham, M. Am. Soc. C. E., of the firm of Stowell & Cunningham, civil engineers, of Albany, N. Y., and Mr. Fred. Thompson, civil engineer, of the District of Columbia, have been appointed Civil Engineers in the United States Navy, with the relative rank of Lieutenant (junior grade).

Mr. Wm. Jackson, M. Am. Soc. C. E., City Engineer of Boston, will make a study of the bridges in the principal large cities in Europe, to obtain information for use in connection with his work as engineer of the Cambridge (Massachusetts) Bridge Commission. According to press dispatches Mr. Jackson sailed early this week.

Mr. L. N. Case, Superintendent of the water-works at Detroit, Mich., has been appointed Manager of the Duluth, Minn., water-works, to succeed Mr. C. E. Vanbergen, resigned. Mr. Vanbergen's appointment was noted in our issue of Sept. 8. Mr. Jas. S. Matterson has been appointed Assistant Secretary of the Duluth Water-Works.

Mr. J. W. Schaub, M. Am. Soc. C. E., has opened an office at 1731 Monadnock Block, Chicago, for independent practice as a bridge engineer. He was formerly Engineer of the Detroit Bridge & Iron Works, Detroit, Mich., and later of the Hamilton Bridge Works, Hamilton, Ont. Mr. Schaub has recently perfected designs for a new type of bascule bridge.

Capt. Alfred E. Hunt, M. Am. Soc. C. E., President of the Pittsburg Reduction Co., Pittsburg, Pa., who went to the front with Battery B, 18th Regiment Pennsylvania Volunteers, is prominently mentioned as a desirable candidate for the next Mayor of Pittsburg. He recently returned here from the front in very poor health, but has been rapidly recuperating.

Mr. G. H. Dunlop, civil engineer, of Melbourne, Victoria, Australia, is now in this country, on his way to England. He is studying American methods and machinery for the excavation and handling of material, including steam shovels, grading machines and conveying plants, with a view to introducing them on work in Australia. He is the inventor of a new form of wooden lining for tunnels, which has been used in about 3,500 ft. of sewer tunnel in Melbourne.

Hon. John H. Moffitt, General Manager of the Syracuse Rapid Transit Ry., Syracuse, N. Y., who for the past eight years has been connected with the street railways of that city, has resigned his position. Mr. C. Loomis Allen has been appointed Acting General Manager to fill the vacancy. Mr. Allen has been the Engineer of the Syracuse street railways for the past four years, during their construction and reconstruction, and lately has held the position of Assistant General Manager.

Mr. R. Krumm, of Columbus, O., says U. S. Minister Allen, of Corea, under date of July 16, 1898, has been engaged as Chief Engineer of the Corean government. He is "to direct all engineering work, such as the laying out of irrigation works, roads, bridges, fortifications, etc." Mr. Krumm, who is a graduate of the University of Ohio, has a five years' contract, at $300 a month for the first year, and an increase of $50 a month each year. He will also have house and certain other expenses, it is said, paid by the government. He is now engaged on the Seoul-Chemulpo Ry.

The officers of the American Society of Civil Engineers, for the coming year, as named by the Nominating Committee, and which are to be voted for Jan. 18, 1899, are as follows: For President, Mr. Desmond FitzGerald, Boston, Mass.; Vice-Presidents, Mr. Robert Cartwright, Rochester, N. Y., and Mr. Robert Moore, St. Louis, Mo.; Treasurer, Mr. John Thomson, New York city; Directors, Messrs. John A. Bensel, C. W. Buchholz and Sami. Whinery, New York city; Mr. Edmund K. Turner, Boston, Mass.; Prof. Palmer C. Ricketts, Troy, N. Y., and Mr. Jas. D. Schuyler, Los Angeles, Cal.

OBITUARY.

Gen. Jas. L. Botsford, a retired iron manufacturer, died at Youngstown, O., Oct. 6, aged 66.

Mr. Elbert Fleet, formerly Fire and Water Commissioner of Long Island City, N. Y., died Oct. 5, aged 62.

Mr. Charles Patterson, civil engineer, died suddenly, at Mapimi, Mex., Aug. 26. His home was in Doylestown, Pa.

Mr. Platte R. Bush, civil engineer, of Saginaw, Mich., died in Harper Hospital, Detroit, Aug. 4, aged 25. He was a graduate of the University of Michigan, Ann Arbor.

Mr. W. H. Cline, Chief Engineer, U. S. N., retired, died in the Long Island College Hospital on Oct. 5. He was born in Baltimore on Sept. 3, 1837. In 1861 he entered the Navy on the ship "Wyoming," and took part in the chase of the "Alabama." He was promoted to Chief Engineer in 1887, and retired on Aug. 27, 1894.

Mr. A. W. Stedman, late Chief Engineer of the Lehigh Valley R. R., died at Mauch Chunk, Pa., Oct. 7. Mr. Stedman entered the service of the Lehigh Valley R. R. when a boy, as a rodman in the engineer corps, and worked his way up to the position of Chief Engineer, which position he held until about three years ago, when his health began to fail.

Mr. William E. Gilbert, Vice-President and Treasurer of the Gilbert Car Mfg. Co., Green Island, N. Y., died at Eagle Mills, N. Y., Sept. 29, aged 58. He was born in Troy, N. Y., and became associated with his father, the late Uri Gilbert, in 1863, under the firm name of Uri Gilbert & Son, railway car builders. In 1882 the firm became the Gilbert Car Mfg. Co., and Mr. Wm. E. Gilbert became the Vice-President and Treasurer.

Mr. Silas E. Weir, a member of the engineering staff of the West Virginia Central & Pittsburg R. R., died at his home in Elkins, W. Va., Oct. 5, of typhoid fever. He was born in New Brunswick, N. J., and graduated from Rutgers College, in that city, in 1871. He was for some years City Engineer of New Brunswick, and later went to Kentucky, where he built several railway tunnels. He was afterwards made Engineer in charge of the Wilkesbarre Division of the Lehigh Valley R. R.

ENGINEERING SOCIETIES.

COMING TECHNICAL MEETINGS.

ST. LOUIS RAILWAY CLUB.
Oct. 14. Secy., H. H. Roberts, 511 Commercial Bldg., St. Louis, Mo.

ENGINEERS' CLUB OF COLUMBUS.
Oct. 15. Secy., H. M. Gates, 12½ North High St., Columbus, O.

ENGINEERS' CLUB OF PHILADELPHIA.
Oct. 15. Secy., L. F. Rondinella, 1122 Girard St., Philadelphia, Pa.

TECHNICAL CLUB OF OMAHA.
Oct. 17. Secy., J. Harry Lawrie, Omaha, Neb.

ENGINEERS' CLUB OF MINNEAPOLIS.
Oct. 17. Secy., H. B. Smith, 1620 S. E. 4th St., Minneapolis, Minn.

ENGINEERS' AND ARCHITECTS' CLUB OF LOUISVILLE.
Oct. 17. Secy., Marshall Morris, 16 Norton Bldg., Louisville, Ky.

ENGINEERS' SOCIETY OF WESTERN PENNSYLVANIA.
Oct. 18. Secy., R. A. Fessenden, 410 Penn Ave., Pittsburg, Pa.

AMERICAN INSTITUTE OF MINING ENGINEERS.
Oct. 18. Annual meeting, Buffalo, N. Y. Secy., R. W. Raymond, P. O. Box 228, New York city.

AMERICAN ASSOCIATION OF RAILWAY SUPERINTENDENTS OF BRIDGES AND BUILDINGS.
Oct. 18-20. Annual meeting, Richmond, Va. Secy., S. F. Patterson, Boston & Maine R. R., Concord, N. H.

WESTERN SOCIETY OF ENGINEERS.
Oct. 19. "Masonry," Geo. S. Morison. Secy., N. L. Litten, Monadnock Block, Chicago, Ill.

AMERICAN SOCIETY OF CIVIL ENGINEERS.
Oct. 19. "Stave Pipe—Its Economic Design and the Economy of Its Use," Arthur L. Adams. Secy., C. W. Hunt, 220 W. 57th St., New York city.

ENGINEERS' CLUB OF ST. LOUIS.
Oct. 19. Secy., Richard McCulloch, 2401 N. Spring Ave., St. Louis, Mo.

ENGINEERS' AND ARCHITECTS' ASSOCIATION OF SOUTHERN CALIFORNIA.
Oct. 19. Secy., Frank H. Olmsted, Los Angeles, Cal.

BOSTON SOCIETY OF CIVIL ENGINEERS.
Oct. 19. Secy., S. E. Tinkham, City Hall, Boston, Mass.

WESTERN FOUNDRYMEN'S ASSOCIATION.
Oct. 19. Secy., B. M. Gardner, 1522 Monadnock Block, Chicago, Ill.

PENNSYLVANIA STREET RAILWAY ASSOCIATION.
Oct. 19-20. Annual meeting, Scranton, Pa. Secy., S. P. Light, Lebanon, Pa.

AMERICAN GAS LIGHT ASSOCIATION.
Oct. 19-21. Annual meeting, Niagara Falls, N. Y. Secy., Alfred E. Forstall, Montclair, N. J.

ENGINEERS' CLUB OF CINCINNATI.
Oct. 20. Secy., J. F. Wilson, P. O. Box 333, Cincinnati, O.

NEW YORK RAILROAD CLUB.
Oct. 20. "Purchasing Materials," H. B. Hodges. Secy., W. W. Wheatley, 168 Montague St., Brooklyn, N. Y.

SOUTHERN AND SOUTHWESTERN RAILWAY CLUB.
Oct. 20. Secy., F. A. Charpiot, P. O. Box 13, Savannah, Ga.

CHICAGO ELECTRICAL ASSOCIATION.
Oct. 21. "Practical Points on Electrical Measurement," W. B. Hale. Secy., J. R. Cravath, 825 Monadnock Block, Chicago, Ill.

CIVIL ENGINEERS' CLUB OF CLEVELAND.
Oct. 25. Secy., Wm. H. Searles, Case Library Building, Cleveland, O.

AMERICAN SOCIETY OF MUNICIPAL IMPROVEMENT.
Oct. 26-28. Annual meeting, Washington, D. C. Secy., D. L. Fulton, Bureau of Highways and Sewers, Allegheny, Pa.

CANADIAN SOCIETY OF CIVIL ENGINEERS.
Oct. 27. Secy., C. A. McNab, 112 Mansfield St., Montreal, Canada.

ENGINEERING ASSOCIATION OF THE SOUTH.
Oct. 27. Secy., C. B. Wilson, 1,000 Broad St., Nashville, Tenn.

BROOKLYN ENGINEERS' CLUB.
Nov. 3. Secy., A. J. Provost, Jr., 191 Montague St., Brooklyn, N. Y.

TECHNICAL SOCIETY OF THE PACIFIC COAST.
Nov. 4. Secy., O. Von Geldern, 819 Market St., San Francisco, Cal.

ENGINEERS' SOCIETY OF WESTERN NEW YORK.
Nov. 7. Secy., H. J. March, Library Bldg., Buffalo, N. Y.

CIVIL ENGINEERS' SOCIETY OF ST. PAUL.
Nov. 7. Secy., C. L. Annan, City Engineers' Office, St. Paul, Minn.

NEW ENGLAND RAILROAD CLUB.
Nov. 8. Secy., Edw. L. Janes, P. O. Box 1158, Boston, Mass.

DENVER SOCIETY OF CIVIL ENGINEERS.
Nov. 8. Secy., W. B. Lawson, 36 Jacobson Bldg., Denver, Colo.

RAILWAY SIGNALING CLUB.
Nov. 8. Secy., Earl M. Seitz, Signal Engineer, C. & N. W. Ry., Chicago, Ill.

SOCIETY OF NAVAL ARCHITECTS AND MARINE ENGINEERS.
Nov. 10-11. Annual meeting. Secy., Francis T. Bowles, 12 West 31st St., New York.

CENTRAL RAILWAY CLUB.
Nov. 11. Secy., H. D. Vought, 114 Fifth Ave., New York city.

MONTANA SOCIETY OF ENGINEERS.
Nov. 12. Secy., A. S. Hovey, National Bank Bldg., Helena, Mont.

ENGINEERS' CLUB OF KANSAS CITY.
Nov. 14. Secy., F. W. Tuttle, Baird Bldg., Kansas City, Mo.

THE LOUISIANA ENGINEERING SOCIETY.
Nov. 14. Secy., J. F. Coleman, 712 Union St., New Orleans, La.

NORTHWEST RAILWAY CLUB.
Nov. 15. Secy., T. A. Foque, Soo Line, Minneapolis, Minn.

THE ENGINEERS' CLUB OF COLUMBUS.—A regular meeting of this club was held Oct. 1. Mr. H. M. Layman presented an interesting paper on "Progress in Electric Lighting," which was discussed quite fully.

NEW YORK RAILROAD CLUB.—This club held its first meeting of the season on Sept. 15, at 12 W. 31st St., New York city. Mr. W. S. Rogers presented a paper on "Cost, Keeping and Accounting." Prof. H. Wade Hibbard outlined the course of railway engineering recently established at Sibley College, Cornell University.

TEXAS RAILWAY CLUB.—A meeting of this club was held at Rockport, Tex., on Sept. 19, at which Mr. F. Hufsmith read a paper on "The Safety in Train Air Brake Appliances." A paper by Mr. A. S. Grant on "The Necessity of Harmony in Departments of Railway Service," presented at the last meeting, was discussed quite fully. An invitation from the Agricultural and Mechanical College at Bryan to visit the college was accepted.

BROOKLYN ENGINEERS' CLUB.—On Oct. 6 this club gave a complimentary dinner to its members, who had volunteered for service in the war with Spain. Of the 15 who enlisted all except one, Corporal Edward C. Brown, returned home. This number formed 15% of the total active membership. An interesting toast list was presented, and the event proved most enjoyable.

It is announced that Mr. Willard C. Tuttle will read a paper on "Foundry Moulding Machines for Snap Flask Work," on Oct. 13. The informal "library talks" will be resumed on Oct. 20 with a paper on "Testing of Steam Boilers," by Mr. R. P. Bolton.

WESTERN SOCIETY OF ENGINEERS.—At the meeting, on Oct. 5, there was an exceptionally large attendance to listen to a paper on "The Track Elevation of the Chicago & Northwestern Ry.," which was read by Mr. Louis H. Evans, the engineer in charge of the work. The paper was illustrated by drawings and stereopticon views, showing the character of the work, much of which has been described in our columns. Special arrangements had been

made to have the track elevation work of other railways in Chicago described by the several engineers in charge. The work on the Illinois Central R. R. was described by Mr. H. W. Parkhurst; that on the Chicago, Milwaukee & St. Paul Ry. by Messrs. Webb, Rogers and Reichmann, and that on the Chicago, Burlington & Quincy R. R. by Mr. G. H. Bremner. Time did not permit a full discussion, but the subject will be taken up at a later meeting and will include the following: Lake Shore & Michigan Southern Ry. and Chicago, Rock Island & Pacific Ry., Mr. L. H. Clarke; Pittsburg, Fort Wayne & Chicago Ry., Mr. W. H. Coverdale; Pittsburg, Cincinnati, Chicago & St. Louis Ry., Mr. Thomas H. Johnson; and the 16th St. crossing, Mr. G. W. Vaughn.

On Oct. 8, a special train, provided by the Chicago & Northwestern Ry., carried a large party of members and guests over this road to examine the work on the Chicago, Milwaukee & St. Paul Ry., and on the Pittsburg, Chicago, Cincinnati & St. Louis Ry. Arrangements are being made for a special trip to the Trans-Mississippi Exhibition at Omaha, Neb., Oct. 14 to 16.

THE ENGINEERS' CLUB OF PHILADELPHIA.—This club held a regular meeting on Oct. 1, with 57 members and visitors present, at which various routine business was transacted. Later, Mr. Josiah Dow presented the first paper of the evening on the "Dow Steam Engine and Chronometric Governor." This engine is a modification of the Corliss type, intended to effect greater economy in the use of steam by a new arrangement of valves and steam ports, and by means of the chronometric governor to preserve greater regularity of speed under varying loads than has hitherto been attainable. The theory of the general subject of steam-engine economy was thoroughly reviewed and the details of the author's improvements were described with the aid of stereopticon views.

The paper was discussed by Mr. Francis Schumann, who, after seeing the engine in operation, expressed the opinion that it was such a decided improvement over other types of steam engines that he believed it would mark an epoch in the development of steam power.

Mr. John C. Trautwine, Jr., presented the second paper of the evening by its title, "Popular Errors about Water Meters."

It was announced that at the meeting of Oct. 15, Mr. George S. Webster would present a paper on "The Construction of the Pennsylvania Avenue Subway and Tunnel, Philadelphia," and that Mr. Webster had extended an invitation to members to visit the work on the afternoon of Oct. 22.

ENGINEERS' CLUB OF ST. LOUIS.—The 476th meeting of this club was held Oct. 5, with 18 present.

Prof. J. H. Kinealy moved that the secretary address letters of thanks to the Wiggins Ferry Co., and to Mr. Lemon Parker for courtesies extended to the club during the summer.

A letter was then read from Mr. Charles L. Bouton, who had been appointed a delegate from the Engineers' Club of St. Louis to the 50th Anniversary Celebration of the Society of Civil Engineers of France. The President stated that the Missouri Historical Society had invited the club to participate in the arrangements for the celebration of the Louisiana Purchase.

The discussion of the smoke abatement movement in St. Louis was then taken up. Mr. Eugene McQuillan, the attorney for the Citizens' Smoke Abatement Association, addressed the club in regard to the legal questions involved. He stated that an ordinance had been passed by the Municipal Assembly several years ago which prescribe a punishment for the emission of dense, black smoke. Several convictions had been secured under this ordinance, and the smoke nuisance had been largely abated, until an appeal case the Supreme Court of Missouri decided that the Municipal Assembly had exceeded its rights under the City Charter in passing the ordinance. Mr. McQuillan stated that a new ordinance was in course of preparation, and is soon to be introduced in the Municipal Assembly. Richard McCulloch, Secy.

NEW PUBLICATIONS.

LITERARY MAGAZINES.—The leading topic in all the magazines this month is, of course, the war and the questions which have grown out of it. Even the English reviews give prominent place to these topics. The "Contemporary" and "Fortnightly Review" for September each contain papers on the Carlist movement in Spain. Most Americans have an idea that the Carlist party in Spanish politics is actuated merely by the desire to secure a throne for their leader and fat places for his personal followers. If the writers in the above magazines tell the truth, however, Carlism aims at quite a revolution in methods of government. It promises home rule in local and provincial affairs, in place of the present plan of controlling everything at Madrid. The indictment which the defenders of Carlism bring against the present Spanish government is a formidable one, and Americans who wish to obtain some idea of Spanish political conditions will do well to read these articles.

The English reviews also have something to say respecting the new problems which this country has had forced upon it. In the "Nineteenth Century" we find an article on "The New American Imperialism," in which the writer expresses the opinion that for the United States to undertake a policy of colonial expansion is "Manifest Destiny." In the "North American Review," M. W. Haseltine writes on "What Shall Be Done About the Philippines?" He urges that the United States should keep them, but thinks it would be fair for us to assume that part of the Spanish public debt which was secured by the Philippine revenues, and, in addition, one-fifth part of the Cuban debt. The best article by far on the Philippine question that we have anywhere seen, however, is by Prof. Dean C. Worcester, of Cornell, in the October "Century." Prof. Worcester has such an intimate knowledge of the islands and their people as is possessed probably by hardly any other American of education and prominence. Briefly summarized, Prof. Worcester's opinion is that Spain would find it difficult, if not impossible, to re-establish her sovereignty in the Philippines, even if she were given a free hand. To turn the islands over to native rule would result in perpetual anarchy and civil war. European powers would at once step in and establish governments under their own flags to protect their interests, and would be justified in so doing. Any nation attempting to govern the Philippines, however, Prof. Worcester thinks, will have some knotty problems on its hands, and he sets forth very clearly what some of these problems are. We may note under what Prof. Worcester says as to the unhealthfulness of the climate the following incident, which will be of especial interest to our readers:

About eight years ago, General Manager Higgins of the Manila & Dapitan Ry., having secured a concession from the Spanish government, organized in London a party of about 40 Englishmen, civil engineers and others, who were to survey the route and build and afterward assist in the operation and management of the railroad. Mr. Higgins gave special attention to the physical condition of his assistants, selecting only men that he believed could stand the severe climate of the archipelago. To-day not more than half of the members of that party are alive.

Of course, the stories of the war are prominent this month. That which will attract most general attention is Richard Harding Davis' account of the Battle of Santiago. We will note here that one of the chief indictments which he brings against General Shafter in this article is that there was no reconnoissance of the enemy's position and the country over which the attacking army had to pass before the memorable advance on July 1. Apparently, Davis was unaware of the reconnoissance work done by the engineers of the army, and so well described by Mr. E. J. Chibas on another page of this issue of Engineering News.

Another and almost equally good account of the taking of San Juan and Caney is given by Caspar Whitney in the October "Harper's," and the charge as to the lack of reconnoissance before the battle is repeated. This magazine also contains an interesting summary, by Wm. E. Griffis, of the past exploits of our navy in Asiatic waters.

Besides Prof. Worcester's article, noted above, the "Century" contains a description of the most remarkable "bore," or wave in the estuary of a tidal river, that has ever been recorded. The river is the Tsien-Tang-Kiang of China. According to observations by Capt. Moore, of the British survey ship "Rambler," in 1888, and 1892, this bore advances with a height of 11 to 12 ft., and the breakers which form just back of the advancing wall of water are 25 to 30 ft. above the level of the still water just in front of them. We should also notice here another "Century" article, in which an account is given of the famous "pony express," which for some two years in the early '60s carried mails from St. Joseph, Mo., to Sacramento, Cal., on a schedule time of 8 days. The quickest trip of this express was the carriage of President Lincoln's inaugural address, which was done in 7 days 17 hours (185 hours), or an average of 10.7 miles per hour, for the total distance of 1,950 miles.

The "Review of Reviews" for October, besides its usual summary of current events, has two timely papers on "Medical and Sanitary Aspects of the War," by Dr. Carroll Dunham, and "Some Military Lessons of the Struggle," by Lieut. John H. Parker.

"The North American Review" contains an account of "The Movement for Municipal Reform," by Clinton R. Woodruff, Secretary of the National Municipal League, detailing the progress that has been made toward the improvement of municipal government in several of the principal American cities. Admiral P. H. Colomb discusses the strategic position of the United States, under its new conditions, and concludes that the new possessions in the East and West Indies will weaken the country, from a military point of view, far more than they will strengthen it. The article is one which should be read by everyone who desires to form correct opinions respecting our future policy with respect to national defence.

Both "The Century" and the "Cosmopolitan" have excellent papers on the Omaha Exposition, and the latter magazine has also a popular description of the packing industry as carried on at the Union Stock Yards, Chicago.

The October "Atlantic" opens with two thoughtful papers upon the new "era of good feeling" between the United States and England, one by Hon. Carl Schurz and the other by Mr. A. V. Dicey. A historical paper on "The Development of Our Foreign Policy" is also worth mention here.

In the current "Popular Science Monthly," Mr. Edward Atkinson has a paper in which he endeavors to trace in a scientific manner the evolution of high wages from low cost of labor. "The First Half Century of the American Association for the Advancement of Science" is reviewed by Prof. Daniel S. Martin, and Dr. F. S. Oswold writes on "Weather Freaks of the West Indies," a subject of more immediate interest to us now than a year ago.

TRADE PUBLICATIONS

(The standard sizes for pamphlets and trade catalogues recommended by all the principal engineering societies of the United States are: 3 1-2 x 6 ins.; 6 x 9 ins., and 9 x 12 ins.)

CHAIN SAW MORTISERS.—The New Britain Machine Co. New Britain, Conn. Pamph.; 6 × 9 ins.; pp. 22.

The chain saw mortiser is a machine made for rapid mortising of timber. Its principal feature is a steel chain, each link of which has a sharpened saw tooth, so formed as to carry out its own chip. The chain travels about 1,500 feet per minute, in which time 40,000 teeth are presented to the work. Six different styles are built for different classes of work.

THE CASE HIGH-SPEED ENGINE.—The New Britain Mfg. Co. New Britain, Conn. Pamph.; 6 × 9 ins.; pp. 40.

The Case automatic engine has now been on the market for ten years. It belongs to the general type of oscillating engines, but has some features peculiarly its own, which distinguish it from earlier engines of the type which were at one time quite common. The cylinder rocks not on trunnions, but on its whole exterior surface, which is of cylindrical shape, and rocks inside of a chamber in which it is said to be balanced on a film of steam so that it rocks with practically no friction. This style of construction makes the engine exceedingly compact, so that it occupies much less space than any reciprocating engine of the same power. It is built in sizes from 2½ to 25 HP. Besides the usual style, in which the bed is bolted to the floor foundation, "bracket" and "hanger" engines are built, adapted to be bolted to the side walls or overhead beams of a room.

CONSTRUCTION NEWS.

CONDENSED LIST OF CONTRACTS PENDING WITH DATE OF OPENING BIDS.

Bids to be opened.	Work.	Place.	See Eng. News.
Oct. 13.	Hire of dredging plant, Mobile, Ala.		Sept. 15
	Advertised, Eng. News, Sept. 15 to Oct. 6.		
Oct. 13.	School building, Waterbury, Conn.		Oct. 6
Oct. 13.	Asphalt paving, New York, N. Y.		Oct. 6
Oct. 13.	Park work, New York, N. Y.		Oct. 6
Oct. 13.	Removing ashes, etc., Cleveland, O.		Oct. 6
Oct. 13.	Macadam road, North Reading, Mass.		Oct. 13
Oct. 13.	Brick paving, Williamsport, Pa.		Oct. 13
Oct. 14.	Breakwater, Ellensburg, Wash.		Oct. 13
Oct. 14.	Brick sewer, Springfield, Mass.		Oct. 13
Oct. 14.	Paving, Chicago, Ill.		Oct. 13
Oct. 14.	Grading 33d St., Omaha, Neb.		Oct. 13
Oct. 14.	Bridge, Vaucluse, S. C.		Oct. 6
Oct. 14.	Pipe sewers, Madison, Wis.		Sept. 29
	Advertised, Eng. News, Sept. 29 and Oct. 6.		
Oct. 15.	Water-works, Wagoner, Ind. Ter.		Sept. 22
	Advertised, Eng. News, Sept. 22 to Oct. 6.		
Oct. 15.	Masonry, woodwork, etc., Cincinnati, O.		Sept. 22
Oct. 15.	School building, Harris, Minn.		Sept. 22
Oct. 15.	Electric light plant, Charlotte, N. Y.		Sept. 29
	Advertised, Eng. News, Sept. 29 and Oct. 6.		
Oct. 15.	Electric plant, Bremerton, Wash.		Sept. 29
Oct. 15.	Water-works, Charlotte, N. Y.		Sept. 29
	Advertised, Eng. News, Sept. 29 and Oct. 6.		
Oct. 15.	Ocean Ave., improvement, New London, Ct.		Oct. 6
Oct. 15.	Light station, New Haven, Conn.		Oct. 6
	Advertised, Eng. News, Oct. 6 and 13.		
Oct. 15.	Electric light plant, Wynne, Ark.		Oct. 6
Oct. 15.	Pipe sewer, Passaic, N. J.		Oct. 6
Oct. 15.	Water bonds, Crystal, Minn.		Oct. 6
Oct. 15.	Church building, New York, N. Y.		Oct. 13
Oct. 15.	Refreshment pavilion, Washington, D. C.		Oct. 13
Oct. 15.	Stone culverts, Jamestown, N. Y.		Oct. 13
Oct. 15.	Additions to pumping station, Chicago, Ill.		Oct. 13
Oct. 15.	Grading, brick paving, Cleveland, O.		Oct. 13
Oct. 15.	Cobble paving, etc., Detroit, Mich.		Oct. 13
Oct. 15.	Water-works, Bainbridge, N. Y.		Oct. 13
Oct. 15.	Water bonds, Spring Lake, N. J.		Oct. 13
Oct. 17.	Heating, ventilating, etc., New York.		Oct. 13
Oct. 17.	City hall, superstructure, Freeport, Ill.		Oct. 13
Oct. 17.	Street work, St. Paul, Minn.		Oct. 13
Oct. 17.	Storm sewer, Hamilton, O.		Oct. 13
Oct. 17.	Water pipe, Boston, Mass.		Oct. 13
Oct. 17.	Water supply well, Needham, Mass.		Oct. 13
Oct. 17.	Asphalt paving, Philadelphia, Pa.		Oct. 13
Oct. 17.	Curbing, etc., Montgomery, Ala.		Oct. 13
Oct. 17.	Sewers, etc., Albany, N. Y.		Oct. 6
Oct. 17.	Asphalt paving, etc., Logansport, Ind.		Oct. 6
Oct. 17.	Sewer foundation, Burlington, Ia.		Oct. 6
Oct. 17.	Dredging Lake Merritt, Oakland, Cal.		Oct. 6
Oct. 17.	Water pipe, Wytheville, Va.		Sept. 29
Oct. 17.	Sewerage system, Mobile, Ala.		Sept. 22
	Advertised, Eng. News, Sept. 22 to Oct. 6.		
Oct. 17.	Gasholder, etc., Edinburgh, Scotland.		Sept. 1
Oct. 18.	Railway track, Cincinnati, O.		Sept. 22
Oct. 18.	Paving, Sharpsburg, Pa.		Oct. 6
	Advertised, Eng. News, Sept. 29 and Oct. 6.		
Oct. 18.	Machinery etc., Naval Station, Puget Sound.		Sept. 29
Oct. 18.	Street bonds ($60,000), Sharpsburg, Pa.		Oct. 6
Oct. 18.	Water-works, Alden, N. Y.		Oct. 6
	Advertised, Engineering News, Oct. 6.		
Oct. 18.	Electric railway franchise, Portage, O.		Oct. 6
Oct. 18.	Pipe sewers, Columbus, O.		Oct. 13
Oct. 18.	Stand-pipe, boilers, etc., Eaton Rapids, Mich.		Oct. 13
	Advertised, Engineering News, Oct. 6.		
Oct. 18.	Water-works, Perham, Minn.		Oct. 13
Oct. 18.	Electric plant, Perham, Minn.		Oct. 13
Oct. 18.	Paving, Columbus, O.		Oct. 13
Oct. 19.	Sewers, Indianapolis, Ind.		Oct. 13
Oct. 19.	Building, New York, N. Y.		Oct. 13
Oct. 19.	Bridge at Broad St., New Haven, Conn.		Oct. 13
Oct. 19.	Paving, etc., Cleveland, O.		Oct. 13
Oct. 19.	Sewer, New York, N. Y.		Oct. 6
Oct. 19.	Levee work, New Orleans, La.		Sept. 29
Oct. 19.	Asphalt paving, Winnipeg, Man.		Sept. 29
Oct. 20.	Viaduct over Lick Run, Cincinnati, O.		Sept. 22
Oct. 20.	Greenhouses, etc., New York, N. Y.		Oct. 13
Oct. 20.	Bridge work, St. Joseph, Mo.		Oct. 13
Oct. 20.	Brick chimneys (3), Buffalo, N. Y.		Oct. 13
Oct. 20.	Bridge, 150-ft. span, Jackson, W. Va.		Oct. 13
Oct. 20.	Electric conduits, Erie, Pa.		Oct. 13
Oct. 20.	Asylum building, Newark, N. Y.		Oct. 13
Oct. 20.	Water pipe, etc., New York, N. Y.		Oct. 13
Oct. 20.	Macadam road, Enfield, Mass.		Oct. 13
Oct. 20.	Asphalt paving, Reading, Pa.		Oct. 13
Oct. 20.	Repairing roads (15 sections), St. Joseph, Mo.		Oct. 13
Oct. 20.	Water-works, Shawnee, Okla.		Oct. 13
Oct. 20.	Electric light bonds, Grafton, W. Va.		Oct. 6
Oct. 20.	Steam heating, etc., York, Pa.		Oct. 6
Oct. 20.	Cottage, Lancaster, O.		Oct. 6
Oct. 21.	Interior finish, Columbus, Ga.		Oct. 13
Oct. 21.	Paving, Buffalo, N. Y.		Oct. 13

Oct. 21. Sewer pipe, cement, etc., Newton, Mass.....Oct. 13
Oct. 21. Levee work, West Memphis, Tenn.....Sept. 22
Advertised, Eng. News, Sept. 22 to Oct. 13.
Oct. 22. Electric lighting, heating, etc., Buffalo, N.Y..Oct. 13
Oct. 22. Electric light plant, Port Royal, S. C. .....Oct. 13
Oct. 22. Drainage, Harvel, Ill. .....Oct. 13
Oct. 22. Dredging at navy yard, Brooklyn, N.Y.....Oct. 13
Oct. 22. Sewers, Washington, D. C.....Oct. 13
Oct. 22. Pipe sewers, Lebanon, O. .....Oct. 13.
Oct. 22. Iron bridges (2), Salem, Va. .....Oct. 6
Oct. 22. Bridge, plans and material, Cincinnati, O..Sept. 29
Oct. 22. Electric plant, Litchfield, Ill.....Sept. 29
Oct. 22. Dredging, Pensacola Bay, Fla.....Sept. 29
Advertised, Eng. News, Sept. 29 to Oct. 13.
Oct. 23. Plans for sewer system, Chertsey, Eng....Sept. 22
Oct. 24. Markets, etc., Belem, Brazil.....Apr. 28
Oct. 24. Paving with asphalt, etc., Hamilton, O....Sept. 29
Oct. 24. Water-works, Gallipolis, O.....Sept. 29
Oct. 24. Heating plant, St. Peter, Minn. .....Sept. 29
Oct. 24. Storage reservoir, Bradford, Pa.....Oct. 6
Advertised, Eng. News, Oct. 6 and 13.
Oct. 24. Fire engine house, Chicago, Ill. .....Oct. 13
Oct. 24. Elevators (3), New York, N. Y. .....Oct. 13
Oct. 24. Sewers, Toledo, O. .....Oct. 13
Oct. 24. Sewers, (3½ miles), Whiting, Ind. .....Oct. 13
Oct. 24. Brick paving, Toledo, O. .....Oct. 13
Oct. 25. Sewers, Rockford, Ill. .....Oct. 13
Advertised, Engineering News, Oct. 13.
Oct. 25. Viaduct approaches, Nashville, Tenn. .....Oct. 13
Advertised, Engineering News, Oct. 13.
Oct. 25. Sewers, Watertown, Mass.....Oct. 13
Oct. 25. Sewers, Tampa, Fla. .....Oct. 13
Advertised, Eng. News, Oct. 13 and 20.
Oct. 25. Pipe sewer, Huntington, Ind. .....Oct. 13
Oct. 25. Water filter, Ashland, Wis. .....Oct. 13
Oct. 25. Jetties, Portland, Ore. .....Aug. 25
Advertised, Eng. News, Aug. 25 to Sept. 15.
Oct. 25. Brick paving, etc., Tampa, Fla. .....Oct. 13
Advertised, Eng. News, Oct. 13 and 20.
Oct. 25. Street bonds, Oakland, Md. .....Oct. 13
Oct. 25. Brick sidewalk, Huntington, Ind. .....Oct. 13
Oct. 26. Addition to water-works, Norfolk, Va. .....Oct. 13
Advertised, Eng. News, Oct. 13 and 20.
Oct. 26. Bridge bonds, Cincinnati, O. .....Sept. 29
Oct. 26. Dredging, Newport, R. I. .....Sept. 29
Advertised Eng. News, Sept. 29 to Oct. 20.
Oct. 26. Cement, broken stone, etc., Newport, R. I...Sept. 29
Advertised Eng. News, Sept. 29 to Oct. 20.
Oct. 26. Sewer bonds, Glenville, O. .....Oct. 6
Oct. 27. U. S. building, Camden, N. J.....Oct. 6
Advertised, Eng. News, Oct. 6 and 13.
Oct. 27. Paving, Camden, N. J.....Sept. 29
Oct. 27. Electrical machinery, Hull, England. .....Oct. 13
Oct. 28. Heating plant, Genoa, Neb. .....Oct. 13
Oct. 28. Pipe sewer, Monticello, Ind. .....Oct. 13
Oct. 28. Asphalt, brick or stone, Atlanta, Ga.....Oct. 6
Oct. 28. Brick paving, etc. (7 Sts.), Cleveland, O. ....Oct. 6
Oct. 28. Brick and stone wall, Atlanta, Ga. .....Oct. 6
Oct. 28. Stone wall, San Francisco, Cal.....Oct. 6
Oct. 29. Steam tender, Louisville, Ky. .....Oct. 6
Oct. 29. Grading and brick paving, Cleveland, O. ....Oct. 13
Oct. 29. Grading and cement walks, Irvington, Ind. ..Oct. 13
Oct. 30. School building, Chehalis, Wash. .....June 16
Oct. 31. Dry dock, Algiers, La. .....Oct. 13
Oct. 31. Metal work, Mobile, Ala. .....Oct. 13
Advertised, Eng. News, Oct. 13 and 20.
Nov. 1. Hospital plans, New York, N. Y.....Oct. 13
Nov. 1. Bridge, Corydon, Ia. .....Oct. 13
Nov. 1. Artesian well, Jamestown, N. Dak.....Oct. 13
Nov. 1. Sidewalks, Terre Haute, Ind. .....Oct. 13
Nov. 1. Court house, Garner, Ia. .....Sept. 8
Nov. 1. School building, St. Louis, Mo.....Sept. 22
Nov. 3. Repairing sidewalks, Cincinnati, O.....Oct. 13
Nov. 4. Piers and abutments, Coshocton, O.....Oct. 13
Nov. 5. Substructure, Center St., Cleveland, O.....Oct. 13
Nov. 5. Sewers, East Cleveland, O. .....Oct. 13
Nov. 7. Viaduct superstructure, Cincinnati, O. .....Oct. 13
Nov. 7. Bridge, Webster St., Oakland, Cal. .....Oct. 13
Nov. 7. Plank sidewalks, (1 year), Cincinnati, O....Oct. 13
Nov. 7. Wooden bridge (190 ft. long), Magnolia, Miss. Oct. 13
Nov. 7. Brick paving, Toledo, O. .....Oct. 13
Nov. 7. Improving electric plant, Topeka, Kan. ..Sept. 22
Nov. 9. Electric light plant, Toronto, Ont. .....Oct. 6
Advertised, Engineering News, Oct. 6.
Nov. 9. Electric energy, Toronto, Ont.....Oct. 6
Advertised, Engineering News, Oct. 6.
Nov. 9. Bridge, Sable Creek, San Jose, Cal. .....Oct. 13
Nov. 10. Water supply, Belem, Brazil .....Sept. 22
Nov. 11. Bridges, (3), Olivet, S. Dak. .....Oct. 13
Nov. 12. Water bonds ($130,000), Reno, N. Mex.....Oct. 13
Nov. 14. Removing wreck, Rockland Harbor, Me.....Oct. 13
Nov. 15. Industrial school, Ellendale, N. Dak.....Oct. 13
Nov. 15. Water-works addition, Seattle, Wash.....Sept. 22
Advertised, Eng. News, Sept. 22 to Nov. 10.
Nov. 15. Jail work, San Saba, Tex. .....Sept. 29
Nov. 15. Electric lighting, Greensboro, N. C. .....Oct. 6
Nov. 16. Electric lighting, Camden, N. J. .....Oct. 13
Advertised, Eng. News, Oct. 13 to 27.
Nov. 21. Government bldgs (8), Sophia, Bulgaria....Sept. 29
Nov. 30. Bridge, etc., and plans, Moline, Ill. .....Oct. 6
Advertised, Eng. News, Oct. 6 and 13.
Dec. 1. Electric lighting, Sumter, S. C. .....Oct. 6
Dec. 1. Electric light plant, Clinton, Ill. .....Oct. 13
Dec. 2. Arc lighting, Asheville, N. C. .....Oct. 13
Dec. 15. Storm sewers, Denver, Colo.....Oct. 13
Dec. 31. Plans for station, etc., Stockholm, Sweden. June 23
Jan. 1. City hall plans, Bridgeport, Conn.....Aug. 18
Jan. 2. Bridge, Quebec, Que. .....Sept. 29
Advertised, Eng. News, Sept. 29 and Oct. 6.
Feb. 10. Jail building, Keyser, W. Va. .....Sept. 29

RAILWAYS.

ATLANTIC COAST LINE.—J. R. Kenly, Gen. Mgr., Wilmington, N. C., informs us that the work on the extension of this line, from Denmark to Robbins, via Barnwell, S. C., has not yet been commenced, nor have the surveys yet been completed.

BOYER VALLEY.—This company was incorporated in Iowa, Oct. 5, with a capital stock of $10,000, to build a branch line of the Chicago & Northwestern Ry. from Sac City, to Denison, 25 miles, with a contemplated extension from Stockholm into Harrison county; total length, 100 miles. The incorporators and first board of directors are Marvin Hughitt, M. M. Kuckmer, J. M. Whitman, J. B. Bidford and H. R. McCulloch, all of whom are officers of the Chicago & Northwestern, 22 5th Ave, Chicago, Ill.

BRAINERD & NORTHERN.—Contractors Bagley, Huebner and Lisette have begun actual construction work on the last seven miles of the extension of this line between Walker and Bemidji, Minn., 30 miles, according to reports.

CANTON, ABERDEEN & NASHVILLE. — C. D. Smith & Co., Birmingham, Ala., are reported to have been awarded the contract for building the first section of this line from Winfield to New River, Ala., a distance of about 10 miles. The work is estimated to cost $100,000, and it is expected that it will be completed by Jan. 1. This company was chartered in Alabama Sept. 27 by men interested in the Illinois Central Ry., and it is proposed to build in all about 68 miles of railway from West Point, Miss., on the Illinois Central, to coal lands in Lamar and Fayette counties, Ala.

CHIHUHUA & PACIFIC.—Press reports state that this company, which is building 373 miles of railway in Mexico, is in the market for eight steam pumps and boilers for water stations for the new line. Pres., Almeric H. Paget, 80 Broadway, New York.

CEDAR RAPIDS BELT.—It has been announced at Cedar Rapids, Ia., that the Northwestern, Milwaukee, Illinois Central, and Burlington, Cedar Rapids & Northern Rys. have organized the City Belt Line, which will extend down the river from the new Northwestern bridge to the new roundhouse of that company, a distance of nearly three miles. Four tracks will be constructed, the most of the way on a fill in the river, protected by a retaining wall. It is thought that the line will relieve the present tracks through the business center of the city of 90% of its former freight traffic. Work will be commenced as soon as the Northwestern bridge is completed. The right of way has been secured and a survey made.

CLEVELAND, CINCINNATI, CHICAGO & ST. LOUIS.—This company has submitted a proposition to the council of Columbus, O., whereby the company agrees to raise its tracks and enlarge its embankment from the Scioto River westward to a point near the state pumping station at West Columbus, at a cost to the city of $29,150. This sum is to pay for 70,000 cu. yds. of material at 35 cts. a cu. yd.; 500 cu. yds. of retaining wall, at $5; ballasting 6,800 ft. of track, $1,500, etc. It is said that the council favors the acceptance of the proposition. George W. Kittredge, Ch. Engr., Cincinnati, O.

COBBOSSEECONTEE.—We are informed that this company has been organized in Gardiner, Me., to build about one mile of spur track from the Maine Central Ry. along the stream, to facilitate freight shipments from the mills of the S. D. Warren Paper Co. and others. Pres., R. H. Gardiner, Boston, Mass.; Clk. and Treas., W .E. Maxey, Gardiner; Directors, J. S. Maxey, H. E. Merriam and others, of Gardiner.

COLUMBUS, LIMA & MILWAUKEE.—Reports state that this company has been reorganized, and that arrangements have been made for the immediate completion of the road from Cleveland to Defiance, O. The roadbed and bridges were built eight years ago, and since then have lain idle. It is said to be the intention of the new company to extend the line to Milwaukee and to Columbus. Pres., J. G. W. Cowles, Pres. Cleveland Trust Co., Cleveland, O.; Vice-Pres., H. R. Reynolds; Directors, Daniel Coolridge, Pres. Lorain Steel Co., Lorain, O., and others.

DULUTH & NORTHERN MINNESOTA.—Reports state that six miles of track have been laid on this proposed line and that grading is completed for four miles more. Considerable bridge building will have to be done, however, before track-laying can be proceeded with. The company is still in need of men. It has not yet been decided how extensive the logging operations of Alger, Smith & Co. will be in the territory which the road is intended to open up. M. S. Smith, Pres., Detroit, Mich.; R. N. Marble, Asst.-Gen. Mgr., Duluth, Minn.

FORT WORTH & NORTHWESTERN.—W. D. MacMillan, Secy., Fort Worth, Tex., informs us that no contracts have yet been let for the building of this line, nor is the company ready as yet for construction. The proposed route is from Fort Worth northwest to Throckmorton, Tex., a distance of about 100 miles. Pres., B. B. Paddock, Fort Worth, Tex.

GARNER, CEDAR RAPIDS & NORTHERN.—This company is said to have just begun the construction of a line of railway from Hayfield Junction, the present terminus of the Burlington, Cedar Rapids & Northern Ry., northwesterly through the northern part of Hancock county and into Kossuth county, via Crystal Lake, Ia., a total distance of 20 miles.

GEORGIA & ALABAMA TERMINAL.—Press reports state that $1,000,000 is to be spent by this company in building railway terminals on Hutchinson's Island, opposite Savannah, Ga. The terminals will probably be leased by the Georgia & Alabama Ry. Co., Cecil Gabbett, Vice-Pres. and Gen. Mgr., Savannah.

GEORGIA NORTHERN.—This company is said to have definitely decided to complete its line between Moultrie and Albany, Ga., a distance of about 25 miles. It is expected to lay a 45-lb. steel rail. Pres., J. F. Pidcock, Moultrie, Ga.

GEORGIA PINE.—The directors of this company have resolved to amend its charter so as to permit of an extension of its line from Arlington, northerly to Columbus, via Cuthbert and Lumpkin, Ga., a distance of about 90 miles. Pres., J. P. Williams, Savannah, Ga.; Ch. Engr., Arthur Pew, Damascus, Ga.

GRAND MARAIS & NORTH SHORE.—R. W. Nichols, Ch. Engr., Duluth, Minn., informs us that the survey for this projected line from Grand Marais to Two Harbors, Minn., 90 miles, has not yet been finished. Contracts will be let as soon as surveys are completed; the right of way has been obtained. Pres., E. K. Lewis, Duluth.

GRAND TRUNK.—McCormick & McLeod, Bracebridge, Ont., have been awarded a three-years' contract according to reports, for ties for the northern division and the main line between Toronto and Montreal. Jos. Hobson, Ch. Engr., Montreal, Que.

LICKING VALLEY.—J. Morrow, Audr., Yale, Ky., informs us that four miles of this line have been graded, and track is now being laid. It is proposed to build a 15-mile extension up Licking River Valley, Ky. Pres., E. A. Smith, Providence, R. I.; Ch. Engr., J. D. Ramsey, Yale, Ky.

LITTLE RIVER VALLEY.—F. M. Butts, Secy., Horatio, Ark., informs us that this company has already built about eight miles of railway with its own capital, and that the work is now being pushed farther west. The projected route is from Nashville to Neal Springs, via Howard and Sevier, Ark., a distance of 40 miles. Pres., D. C. Richardson; Ch. Engr., S. L. Morrow, both of Horatio.

MANITOBA & NORTHWESTERN.—It is again announced that this line has passed into the hands of E. P. Osler, of Toronto, Ont.; William Hendrie, Hamilton, Ont., and others, and that it is the intention of the new owners to commence immediately a number of necessary improvements.

MINNEAPOLIS, ST. PAUL & SAULT STE. MARIE.—Reports state that about 60 miles of track have been laid on the 78-mile extension from Kulm, N. Dak., in La Moure county, to a junction with the old grade of the Aberdeen, Bismarck & Northwestern Ry., which was built in 1887 from Aberdeen, S. Dak., to Bismarck, N. Dak., but not ironed. Thomas Greene, Acting Ch. Engr., Minneapolis.

MONTGOMERY, HAYNESVILLE & CAMDEN.—We are informed that all correspondence for the official, engineering and construction departments of this railway company should be addressed to Sol. D. Bloch, Pres., Montgomery, Ala. The company proposes to construct a line from Montgomery to Camden, Ala., and thence to Suggsville, on the Mobile & Birmingham R. R. This latter stretch, from Camden to Suggsville, 45 miles, has recently been surveyed. J. A. Milner, Ch. Engr., Birmingham, Ala.

MUSKOGEE COAL & RY.—J. T. Nelson, Secy., Indian Territory Consolidated Coal Co., Fort Scott, Kan., informs us that the surveys have been made and the entire right of way obtained for this proposed line from Muskogee, Ind. Ter., to Guthrie, Okla., a distance of about 194 miles. Grading and masonry work has been completed for 12 miles, and ties laid.

PACIFIC & ARCTIC.—Press reports state that this railway now under construction from Skaguay to Selkirk, Alaska, is progressing rapidly, rails having been laid to White Pass, and trains operated to that point. The work is being done by the Pacific Contracting Co., Dexter, Horton & Co. Bank Bldg., Seattle, Wash., and of which E. C. Hawkins is chief engineer. John Hislop, Asst. Ch. Engr., Skaguay, Alaska.

PERRIS & LAKEVIEW.—This company has been incorporated in California, with a capital stock of $80,000, by W. G. Nevin, G. Holterhoff, Jr., E. Chambers, H. J. Stevens, and A. P. McGinness, of Los Angeles, Cal.

PITTSBURG & LAKE ERIE.—J. A. Atwood, Ch. Engr., Pittsburg, Pa., informs us that this company is building a quarter of a mile of second track across the Youghiogheny River, near McKeesport, Pa. C. I. McDonald has the masonry contract, at about $25,000; and the Keystone Bridge Co., the bridge work, at about $75,000.

RUSSIA.—Press reports state that the department of the imperial Russian ministry of finance, charged with the management of Russian railways, is about to discuss the construction of the projected Northern Ry. to St. Petersburg. As the grevious famine is making itself rapidly felt in the Government of Kasan and also in the neighboring governments it has been decided to begin the work of construction as soon as possible, so as to find work for the starving peasants.

SIOUX FALLS & PACIFIC.—This company is reported to have been incorporated to build in South Dakota to the Wyoming state line. P. E. Woodworth, H. H. Smith, C. E. McKinney, T. H. Brown and H. H. Lien are the incorporators.

TEXAS WESTERN.—We are informed that surveys are being made, and data collected for the reconstruction of this line to the city limits of Houston. E. A. Campbell, Gen. Mgr., Houston, Tex.

UNION PACIFIC.—New steel rails are being laid on the Salina & Oakley, Kan., branch in place of the old iron rails now in use. When the work is completed, it is expected that the iron rails on the McPherson branch will also be replaced with steel rails.

YELLOWSTONE PARK.—This company has been incorporated in Washington, with a capital stock of $1,500,000. It is proposed to operate a railway from the main line of the Northern Pacific at Bozeman, or Manhattan, through the counties of Park and Gallatin, Mont., the general route of the road being from a point near Brisbin westerly via Trail Creek, to Meadow Creek, Bozeman and Ferris, Hot Springs, thence southerly up the West Gallatin River to its intersection with Dodge Creek, ten miles. Branch lines are to run to Flat Head Pass in the Bridger Mountains from Ferris and to Hot Springs and to Three Forks. The road was incorporated some time ago as the Gallatin Ry., but the name has been changed because it has been found the line will have to pass through more than one county. The line will tap a region said to be almost inaccessible, but to contain some of the finest coal in Montana; it will also traverse a fine barley belt. Work is expected to be completed by Dec. 1. George Turner and W. W. D. Turner, of Spokane, Wash.; and Frank A. Hall, of Bozeman, Mont., are said to be interested.

STREET AND ELECTRIC RAILWAYS.

BURLINGTON, VT.—The "Free Press" announces that the contract for completing the Burlington & Hinesburg R. R., and for the electrical works, has been awarded to C. W. Blakeslee, New Haven, Conn., and that work is to be commenced this week. The rails have been ordered, and tracklaying will soon begin at the Burlington end. This road was projected as a steam railway, and considerable work done on it several years ago. The distance to Hinesburg is 12 miles.——At a special meeting of the Aldermen last week it was voted, 5 to 4, not to allow the Burlington & Grand Isle R. R. Co. to lay tracks into the city. The company refuses to enter the city over the tracks of the Burlington Traction Co., and the beginning of work on this electric railway is thus delayed. F. O. Sinclair, of Burlington, can give information in regard to either of the above roads.

EAST BRIDGEWATER, MASS.—The selectmen of this town Oct. 7 granted a franchise to the company which proposes to construct an electric railway between Whitman and Plymouth, for the right to lay rails in Washington St.

MONSON, MASS.—The Palmer & Monson St. Ry. Co. has been granted a franchise to build in this town, one route being upon the quarry road and the other upon the lower road. Charles F. Grosvenor, H. P. Holden and E. C. Hastings, of Palmer, are directors in the company.

NEEDHAM, MASS.—The railroad commissioners have authorized the Natick & Cochituate St. Ry. Co. to extend its tracks in Needham. Pres., H. Harwood, Natick.

PITTSFIELD, MASS.—The aldermen have granted a permit to the Pittsfield Electric St. Ry. Co. to lay additional tracks on North and Wahconah Sts. Mgr., P. C. Dolan.

WORCESTER, MASS.—The Worcester & Webster St. Ry. Co. has been granted a charter, with a capital stock of $150,000, to construct an electric street railway from the city hall in Worcester to Webster, via Auburn and Oxford, a distance of 15 miles. The directors are, Julius Garst, George A. Bigelow, E. L. Parker and E. P. Knowles, of Worcester; E. S. Hill, Webster; L. E. Thayer, Oxford; H. S. Shaw, Webster.

PHILMONT, N. Y.—The Columbia Traction Co., of this place, has been incorporated with a capital stock of $100,000, of which $1,500 is paid in, to construct and operate a street railway in Philmont, Columbia county. The incorporators are, Franklin G. Simmons, William C. Allen and Ernest F. Foote, of Rutherford, N. J. Principal office, 332 Harrison Ave., Harrison, N. J.

BRADDOCK, PA.—At a meeting of the North Braddock council Oct. 4, a petition was brought up for a franchise for a new street railway to run from Wilkinsburg to Turtle Creek via Swissvale, Hawkins, North Braddock and Bessemer, running eastward along the Pennsylvania R. R. L. G. Wood, of Pittsburg, is representing the company. If the petition passes, the line is expected to be completed by July, 1899.

ERIE, PA.—The council has passed an ordinance permitting the Erie City Passenger Ry., operated by the Erie Electric Motor Co., to extend its tracks to the Behrend paper mill.

PHILADELPHIA, PA.—Reports state that the Southwestern Traction Ry. Co. has begun work on its new trolley line in the 1st, 26th, 27th and 36th Wards. The new line will start at Mifflin and Otsego Sts., and will run along the latter to Jackson St., and thence to old Moyamensing Ave. to Penrose Ferry Road and to the new Penrose Ferry bridge and across the bridge to State Island Road, with its western terminus at the eastern side of Bow Creek. The primary object of the road is to open up to extensive building

operations a tract of land west of Broad St. Pres., Edgar A. Tennis; Treas., U. H. Hapsenplug; Directors, William J. Burns, William O. Smith and H. M. Van Zandt.

WEST CHESTER, PA.—At a special meeting of the borough council Oct. 3 it was decided to grant a right of way to the Philadelphia, Castle Rock & West Chester Ry. Co. to enter this town by way of Gay St. to Matlock St. The line is expected to be in operation by about Dec. 10.

BALTIMORE, MD.—It is reported that the Consolidated Ry. Co., of Baltimore, has awarded the contract for building a connecting line between its Towson & Catonsville branch and the Edmondson Ave. line, of Ellicott City, to D. E. Evans, of Baltimore. Wm. A. House, Gen. Mgr.

LAUREL, MD.—D. G. Adelsberger, Engr., 722 Pennsylvania Ave., Baltimore, Md., informs us that the electric street railway project for Laurel has not yet developed, and has made but little progress towards development.

WASHINGTON, D. C.—Reports state that the contract for track work on that portion of the City & Suburban Ry. lying without the District of Columbia has been awarded to Allen & Talty, of Washington, while the trolley work on the same portion has been let to J. G. White & Co., of Baltimore. The work of constructing the portion in this city will soon be commenced. This work involves the removing and adjusting of about six and one-half miles of water mains to make room for the underground conduits. It is stated that the entire line to Berwyn will be in operation not later than Feb. 15; the roadbed has already been completed as far as that place. The power for the new line will be furnished by the Potomac Electric Power Co., of which O. T. Crosby, of Washington, is president. Mr. Crosby is also president of the railway company. Mr. A. E. Randle, Pres. Capital Ry. Co., has been granted permission by the district commissioners to extend the road through Pencote woods, from Nichols Ave. to the Alexandria branch of the Baltimore & Ohio R. R.

KING WILLIAM, VA.—A county election of King William county is to be held to vote upon the proposition of issuing $40,000 in bonds to aid in the construction of a standard gage electric railway from Richmond to Gloucester. Col. W. R. Aylett, of King William, is said to be interested.

GREENSBORO, N. C.—The Industrial & Immigration Association of Greensboro is urging investors to consider the proposition of building an electric street railway and power plant at this place. Population, 10,000. Secy., W. M. Barber.

BIRMINGHAM, ALA.—The Birmingham Ry. & Electric Co. has begun the work of reconstructing the lines of its city division, requiring the laying of new cross-ties, new rails and new switches.

CANTON, O.—Bids are asked by Louis N. Ley, Cy. Clk., until Oct. 22, for the construction and operation of street railway route No. 4, as follows: beginning on Navarre St. at the intersection with South Market St., thence southwest on Navarre St. to Garfield Ave., thence south on Garfield Ave. to Bridge St.; deposit, $100.

SANDUSKY, O.—It is reported that John MacKelvey of Sandusky, is promoting a deal for a New York syndicate for the consolidation of a number of Northern Ohio electric railways, among them being the Sandusky, Milan & Norwalk Ry. of which G. A. Dewitt is president, and the People's Electric Ry., of Sandusky. The transaction is said to be the first step of a scheme to build a net work of electric lines to connect with Cleveland and Toledo.

ELWOOD, IND.—A. J. Applegate, of Perkinsville, and Mayor Harbit, are said to be interested in a proposed electric railway to run from Elwood to Noblesville, via Perkinsville, a distance of 23 miles.

RICHMOND, IND.—Mayor Zimmerman has appointed Frank Spinning, Theodore Woodhurst, Henry Cutter, George Mashmeyer and John Rolling as a committee to secure an electric railway for this city.

ANN ARBOR, MICH.—Reports state that Col. Mapes, the projector of the Lansing, Dexter & Ann Arbor Electric Ry., has stated that work would begin in 30 days on constructing this line from Ann Arbor towards Dexter, and next spring from Mason to Dexter.

WAUKEGAN, ILL.—J. H. Van Vlissingen, of Chicago, representing the projected Chicago, Waukegan & North Shore Ry. Co., is said to be negotiating with the council for a right of way into the city from the north. The line is intended to connect Kenosha, linking the Milwaukee, Racine & Kenosha and the Chicago & Milwaukee Electric Rys. It will also do a freight business, connecting with the Elgin, Joliet & Eastern Ry. here.

KENOSHA, WIS.—J. M. Blatt, Supt. Milwaukee, Racine & Kenosha Electric Ry. Co., Racine, Wis., informs us that this line runs south from the City Hall in Milwaukee to the north city limits of Kenosha, a distance of 35 miles, and that a franchise is being obtained through Kenosha for a distance of two miles, one mile of which is expected to be built this fall. Nothing will be built; it is only extending tracks and overhead work from the present terminal one mile south to the heart of Kenosha. A 60-lb. tee-rail and standard ties will be used. Pres., Matthew Slush.

SEDALIA, MO.—The Sedalia Electric & St. Ry. Co. was incorporated, Oct. 7, with a capital stock of $400,000, to construct a street railway. The incorporators are, Carlton H. Reeve, Jas. C. Delong, John C. Van Riper and others.

PINE BLUFF, ARK.—Walter S. Jeter, D. C. Bell, W. H. Langford and other citizens have been appointed as a committee to investigate the advisability of erecting a $150,000 power plant for lighting and street railway purposes. Col. S. W. Fordyce., Pres. St. Louis Southwestern Ry. Co., of St. Louis, is interested.

CRIPPLE CREEK, COLO.—It is announced that the survey for the proposed electric line from Colorado Springs to Cripple Creek has been completed. The power will be obtained from Lake Moraine; estimated total cost, $700,000. Among those interested are, W. S. Jackson, Cashier of El Paso Bank, of Colorado Springs; P. S. Simmons, Pres. of Cog Road; A. E. Carlton, Pres. of First National Bank, of Cripple Creek.

ST. CATHERINES, ONT.—Haines Bros., 100 Broadway, New York, informs us that the St. Catherines & Niagara Central Ry. was recently purchased outright by Charles D. Haines, of Kinderhook, N. Y. Stephen D. Lake, Welland House, St. Catherines, Ont., is chief engineer, and is now at work in putting the present road in first-class condition. The line will be extended from Clifton to the Canadian Park and to a connection at the bridge with the electric railway that is operated over the bridge, a distance of one mile. From St. Catherines, the line will be extended three miles to Port Dalhousie. The motive power will be electricity.

ELECTRIC LIGHT AND POWER.

MONTPELIER, VT.—New bids have been asked by the council for lighting the city for two years from March 1.

ANDOVER, MASS.—At the special town meeting, held Sept. 26, the committee on lighting submitted its report. Another chance will be given the Andover Electric Co. to bid for the contract. Chn. Com., Colver J. Stone.

BATH, N. Y.—Bids are asked until Oct. 22 for steam heating, electric lighting, refrigerating plant and plumbing for the Soldiers' and Sailors' Home; check, 10% of bid. O. H. Smith, Secy.

LOCKPORT, N. Y.—Willard T. Ransom, of this city, and others, have obtained options on property along the east bank of the 18 Mile Creek from Newfane to Charlotteville, a distance of about ten miles. The options will expire April 1. Mr. Ransom writes us that it is proposed to produce 2,000 HP. with a 50-ft. dam. It is expected that construction will soon be begun.

MUMFORD, N. Y.—It is proposed to build a new plant. J. F. Ward may be addressed.

SHERMAN, N. Y.—The Sherman Electric Light Co., recently organized, will build a plant at once. It will have a capacity for 700 16-c. p. incandescent lights. Secy., T. J. Newell.

WATERTOWN, N. Y.—The Watertown Electric Light Co. has purchased the power plant and factory of Zimmerman & Hardiman. The company proposes to extend its plant. D. C. Middleton may be addressed.

WHITESBORO, N. Y.—Another election will be held Oct. 24 to vote on two propositions for public lighting. Proposition No. 1 is to pay $2,200 a year for five years for 29 2,000-c. p. arc lights. Proposition No. 2 is to spend $2,100 a year for three years for 72 60-c. p. Welsbach lights to be furnished by the Welsbach St. Lamp Co.

CAMDEN, N. J.—Bids are asked until Nov. 16 for lighting the streets with electricity for a term of one, three or five years, as stated in our advertising columns. Chn. Com., Chas. C. Southard.

STIRLING, N. J.—Plans for a plant are being considered, according to reports.

EASTON, PA.—Bids have been asked by Alfred Clarke, Elec. Engr., 23 Central St., Boston, Mass., for constructing a plant, to cost about $200,000 for the Easton Power Co., recently incorporated. About 1,500 HP. will be secured. W. A. Thompson is in charge of the work.

ERIE, PA.—Bids are asked by the city engineer until Oct. 20 for 400 lin. ft. of lateral electrical conduit in 9th St., 420 ft. in 7th St., and 440 ft. in Peach St., from 7th to 6th Sts., containing 6 to 32 ducts.

JOHNSTOWN, PA.—Bids are asked until Oct. 18 for furnishing about 250 2,000-c. p. arc lights for a term of one to ten years, according to reports. Cy. Clk., J. W. Cramer.

PHILADELPHIA, PA.—Press reports state that bids will soon be asked for furnishing the machinery and for building a city plant. It will have a capacity for furnishing 2,000 arc lights. The plant is estimated to cost about $250,000. The maintenance, with the overhead system, will be about $175,000 a year; with the underground system, already built, about $200,000 a year. Engr., J. J. De Kinder, Girard Bldg., Philadelphia; Chn. Com., Wilson H. Brown; Dir. Pub. Safety, F. M. Riter.

ST. MICHAELS, MD.—The town commissioners are considering the question of either lighting the town with electricity or with acetylene gas in place of gasoline, at present used.

WASHINGTON, D. C.—Otto Mears, Pres. Chesapeake Bay Construction Co., 1420 New York Ave., N. W., Washington, writes us that the company will soon ask for bids for building water-works at the Chesapeake Bay terminus of the railway, it to be so constructed as to furnish power for an electric plant.

FREDERICKSBURG, VA.—D. Franklin Stokes, Philadelphia, has been engaged to prepare plans for a plant. It is probable that bids will be asked soon; estimated cost, $13,000. Chn. Com., T. McCracken.

WINCHESTER, VA.—The light committee has voted to award the contract for putting in a plant in connection with the water-works to the Fort Wayne Electric Corporation, Fort Wayne, Ind.

ASHEVILLE, N. C.—Bids are asked until Dec. 2 for furnishing 100 2,000-c. p. arc lights for a term of three years, the city to have the privilege of buying the plant. (Postponement from Oct. 7.) Mayor, F. M. Miller; Cy. Clk., M. W. Robertson.

CHAPEL HILL, N. C.—T. F. Lloyd writes us that bids for constructing a plant of 150 lights, etc., for a new mill will be wanted about the first of the year.

RALEIGH, N. C.—The Penitentiary Board is considering the advisability of putting in a plant at the state prison. —J. E. Ray, Supt. State Institution for the Blind, has been directed to purchase a plant. The buildings are two miles apart.

ORANGEBURG, S. C.—This place voted Sept. 27 to issue $40,000 in bonds for a plant and water-works. Dr. J. G. Wannamaker and M. Rayson are on the committee.

PORT ROYAL, S. C.—Bids are asked until Oct. 22 for furnishing the machinery and for building a plant at the U. S. naval station; appropriation, $20,000. M. T. Endicott, Ch. Bureau Yards and Docks, Washington, D. C.

SPARTANBURG, S. C.—Press reports state as follows: The purchasers of the Aetna light plant have taken no steps yet looking to the improvement of the service. It was understood that they would remodel the plant, and give better and cheaper light. Up to this month nothing has been done. It was expected that the Whitney company would have begun work by this time, but their plans also have failed.

MONROE, LA.—An election will be held Nov. 9 to vote on the question of issuing $153,000 in 40-year 5% bonds, a part of which sum will be used for a plant, water-works, school building, etc.

NATCHITOCHES, LA.—It is probable that an election will be called to vote on the question of issuing bonds for a plant and water-works.

THIBODEAUX, LA.—The question of building a city plant will be voted upon at the election in November.

PALMYRA, O.—The plant of the Palmyra Electric Light Co. will be rebuilt at once, according to reports. Pres., Orin J. Garlock.

WEST UNION, O.—A. A. Kirschner & Co., Manchester, O., have applied for a 20-year franchise.

COLUMBIA CITY, IND.—The council has purchased the plant owned by J. H. Ruch for $21,600, according to reports. The plant will be used for commercial lighting only.

MIDDLETOWN, IND.—The Fort Wayne Electric Corporation, Fort Wayne, has been granted a 10-year franchise. The plant is to be completed in 60 days.

ROCKVILLE, IND.—Jas. B. Nelson, 61 Baldwin Block, Indianapolis, Ind., has been engaged to prepare plans and specifications for a combined plant and water-works. The contract will be let at once. Population, 2,500.

EATON RAPIDS, MICH.—Bids are asked until Oct. 18 for erecting power house, pumps, etc., as stated in our advertising columns last week. Secy. Water and Lighting Bd., Jas. H. Gallery.

IRONWOOD, MICH.—The question of more lights and a better water supply is being considered. Mayor, E. D. Nelson.

CHICAGO, ILL.—A new electric plant to cost $200,000 will shortly be added to the Illinois Steel Co.'s property at South Chicago. Ground was broken Oct. 5 for the new structure just south of the new blast furnaces. The building will be of brick. Its dimensions are 50 x 255 ft. It is the intention of the company to rush the work to completion before winter sets in.

CLINTON, ILL.—Bids are asked until Dec. 1 for certain machinery and work in connection with the proposed plant to be built by H. Surgart. We are informed that the plant will have a capacity for 80 2,000-c. p. arc and 2,000 16-c. p. incandescent lights; estimated cost, $15,000. Henry Johnson is the designing engineer and R. E. Rock the official in charge.

BARRON, WIS.—This place has voted to issue $1,200 in bonds for a plant.

MANAWA, WIS.—The council is reported to have decided to light the town by electricity, the power to be furnished by the Little Wolf River Lumber Co.

MARSHFIELD, WIS.—Only one bid was received Oct. 6 for lighting the town, it being from the Marshfield Water, Electric Light & Power Co. It is stated that the bid was rejected, and that the committee was instructed to investigate the question of a municipal plant.

EARLHAM, IA.—The question of building a plant is being considered, according to reports.

EMMETSBURG, IA.—An election will be held Oct. 30 to vote on the question of granting a 20-year franchise to John McNamara, Fulton, Ill.

GLENCOE, MINN.—It is stated that W. C. Russell is securing estimates for a plant.

LITTLE FALLS, MINN.—It is stated that this city voted Oct. 4 to issue $60,000 in bonds for a plant and water-works.

MINNEAPOLIS, MINN.—E. T. Abbott, Engr. of Hennepin county, Minneapolis, has completed his report to the Twin City Rapid Transit Co. for the proposed dam and power plant on the Mississippi River, about 3½ miles above the city limits, near Rice Creek. The company has acquired more than half of the flowage rights. The dam will back up water about 12 miles. The dam and machinery will cost about $450,000, and the flowage rights and real estate will cost $75,000. With the dam now used below the falls the company would be able to do away with all its steam plants, and also have an excess of 3,000 or 4,000 HP. to sell. Congress passed the bill last winter giving the company permission to build. It is probable that a beginning will be made this winter.

OLIVIA, MINN.—The question of putting in a plant is being considered by the council, according to reports.

PERHAM, MINN.—Bids are asked until Oct. 18 for furnishing the materials and for putting in a plant and water-works. The plant will have seven arc and 300 incandescent lights. Engr., Chas. F. Loweth, 94 East 4th St., St. Paul, Minn., and Davenport, Ia.; Recdr., R. E. Bachman.

HILLSBORO, N. DAK.—The committee is said to have recommended the building of a plant, at a cost of about $5,000.

SENECA, MO.—The Brodrick Realty Co. writes us that a small plant will be wanted, on the completion of the distillery plant, to light this town, furnish power to the distillery, etc. Population, 1,500. J. E. Schreiner, Seneca, may be addressed.

SEATTLE, WASH.—Bids are asked until Oct. 31 for furnishing street lights for one year from Jan. 1; check, $1,000. Secy. Bd. Pub. Wks., Frank Oleson.

TACOMA, WASH.—The council will be petitioned to investigate the practicability of securing power from the Puyallup River, noted in our issue of Sept. 15. It is stated that a plant can be built for about $290,000.

REDLANDS, CAL.—It is probable that the city trustees will soon ask for bids for lighting the city with electricity.

REDWOOD CITY, CAL.—The city trustees have engaged an engineer to prepare plans for an incandescent light plant.

VISALIA, CAL.—Press reports state that the Mount Whitney Power Co. will soon begin the construction of its proposed plant. The water will be diverted from the Kaweah River. Water will be conveyed through pipe 3,300 ft. and will have a vertical fall of 1,300 ft. Wm. H. Hammond and A. G. Wilson are interested.

YREKA, CAL.—James Quinne, of the Yreka Electric Light Co., is making arrangements to put in a power plant. If he secures the contract for furnishing power for mines and other purposes outside of town, he will also furnish power for machinery in this city.

PROVO, UTAH.—The committee has recommended that a municipal plant be built. Chn. Com., J. B. Keeler.

HULL, QUE.—Press reports state that bids will soon be asked by the city clerk for constructing a plant to cost $4,000.

MONTREAL, QUE.—Barry, Ross & McRae, Niagara Falls, Ont., are reported to have been awarded the contract for the construction of a central power house, etc., for the development of 100,000 HP. at Shawinigan Falls, on the St. Maurice River, near Three Rivers, Que., as advertised and described in Engineering News, Sept. 1. Secy. Shawinigan Water & Power Co., B. Shepherd, Montreal; Engrs., T. Pringle & Son, Imperial Bldg., Montreal.

ORILLA, ONT.—We are informed that bids will be asked in November by the town for furnishing the machinery and for building the electric power and light plant. It will be located on the Severn River, about 16 miles from this place. It is to take the place of a steam power plant now owned and operated by the town. Wm. Kennedy, Jr., Room 14, Y. M. C. A. Bldg., Montreal, Que., will prepare general specifications for the hydraulic and mechanical work.

HULL, ENGLAND.—Bids are asked until Oct. 27 for furnishing certain machinery for an addition to the light plant. Elec. Engr., A. S. Barnard, Daggerlane, Hull; Cy. Treas., Geo. Milner.

BRIDGES.

HARTFORD, CONN.—Bids are asked until Oct. 19 for constructing a bridge over the tracks on Broad St. C. H. Bunce, Cy. Engr.; Chas. H. Northam, Pres. Bd. St. Comrs.

ONEIDA, N. Y.—The town board is considering the question of repairing a number of small bridges.

JERSEY CITY, N. J.—A report has been submitted to the board of freeholders by Addow W. Harrison, Ch. Engr., recommending the construction of a viaduct to be 1,840 ft. long and 35 ft. wide, on the extension of the proposed boulevard to connect Jersey City and Hoboken.

WESTFIELD, MASS.—The following bids were received Oct. 3 for constructing the superstructure for a bridge over Little River at Main St. Oren E. Parks, Engr.:

Walsh Boiler & Iron Works, Springfield, Mass.	$4,290
Springfield Construction Co., Springfield, Mass.	4,497
Harrington, Robinson & Co., Boston, Mass.	5,640
Boston Bridge Works, Boston, Mass.	5,650
Wrought Iron Bridge Co., Canton, O.	5,700
Massillon Bridge Co., Massillon, O.	5,783
Groton Bridge & Mfg. Co., Groton, N. Y.	5,847
King Bridge Co., Cleveland, O.	6,145
Pittsburg Bridge Co., Pittsburg, Pa.	6,149
Variety Iron Works Co., Cleveland, O.	6,200
N. E. Structural Co., Boston, Mass.	6,287
Canton Bridge Co., Canton, O.	6,487
Berlin Iron Bridge Co., E. Berlin, Conn.	6,700
Edge Moor Bridge Wks., Wilmington, Del.	6,748
N. J. Steel & Iron Co., Trenton, N. J.	6,750
Horseheads Bridge Co., Horseheads, N. Y.	6,800
Vermont Construction Co., St. Albans, Vt.	6,900
Toledo Bridge Co., Toledo, O.	6,900
New Columbus Bridge Co., Columbus, O.	7,540
Youngstown Bridge Co., Youngstown, O.	8,473

NEWARK, N.J.—Bids were asked until Oct. 10 for a brick and steel culvert on Springfield Ave., Irvington, and for extending with steel and concrete, the bridge over Third River, Brookfield Ave., Nutley. James Owen, County Engr., Newark.

McKEES ROCKS, PA.—Reports state that J. M. Schoonmaker, Vice-Pres. and Gen. Mgr., Pittsburg & Lake Erie R. R. Co., Pittsburg, has asked the council to take steps for the construction of an overhead bridge at Turner Station.

PHILADELPHIA, PA.—The council has appropriated $810,000 for the construction of bridges during the year 1899.

JACKSON, W. VA.—Bids are asked by the county commissioners until Oct. 20 for a 150-ft. span bridge, 16 ft. wide, with a capacity of 70 lbs. per sq. ft., on masonry foundation. V. A. Dunbar, Design. Engr., Parkersburg, W. Va. ——Plans are being prepared by V. A. Dunbar, Parkersburg, W. Va., for a 125-ft. span Pratt truss. Address County Commissioners, Jackson.

MAGNOLIA, MISS.—Bids are asked until Nov. 7 for constructing a wooden bridge 190 ft. long, over the Boyne Chillo River, near Summit. W. C. Vaught, County Clk.

CHATTANOOGA, TENN.—Reports state that a number of bridges on the Cincinnati, New Orleans & Texas Pacific Ry., between Cincinnati, O., and Chattanooga, are to be repaired at once. G. B. Nicholson, Ch. Engr., Cincinnati, O.; A. Griggs, Div. Supt., and M. Walsh, Supt. Bridges, Somerset, Ky.

NASHVILLE, TENN.—Bids are asked until Oct. 25 for constructing the approaches to the Broad St. and Church St. viaducts, as described in our advertising columns. W.M. Leftwitch, Jr., Cy. Engr.

CINCINNATI, O.—Bids are asked until Nov. 7 for constructing the superstructure of a steel railroad viaduct across the valley of Lick Run. Chas. G. Roth, Clk. Comrs. Water-Wks.

CLEVELAND, O.—Bids are asked until Nov. 5 for constructing the masonry substructure, foundations, abutments, piers, approaches, etc., for the rebuilding of the Center St. bridge over the Cuyahoga River. Geo. R. Warden, Dir. Pub. Wks.

COSHOCTON, O.—Bids are asked until Nov. 4 for constructing three piers and the abutments for a bridge over the Walhonding River, in Bethlehem township, according to reports. Newton Speckman, County Audr.

PONTIAC, ILL.—A contract was awarded Oct. 5 to the Joliet Bridge & Iron Co., Joliet, Ill., at $4,379, for a 150-ft. span steel bridge, 18-ft. roadway, stone piers. G. W. Lacey, Cy. Clk.

EAU CLAIRE, WIS.—The following bids were received Sept. 28 for constructing a new steel bridge of four spans, of 144 ft. each, across the Chippewa River, between Kelsey Ave. and Bridge Sts., and also for removing the old structure: Butler-Ryan Co., sub work, piers and abutments, limestone footing and Dunnville stone above, $20,500; Winona stone for facing, $24,000; Kettle River, stone for facing, $27,000; backing of Dunnville stone, Chas. Stone, masonry, piles and timber foundation, Dunnville sandstone, $8.25 a cu. yd.; Winona limestone and limestone for footing posts, $8.50; piling (driven and cut off), 30 cts. a lin. ft.; lumber per M. ft., in grillage, B. M., $20; rip-rap, $2.50 a cu. yd. Dibley & Robinson, superstructure, taking down, removing old bridge and piling on shore not more than 1,000 ft. away, $33,200. Lafayette Bridge Co., superstructure and substructure, $49,032; remove old bridge for material in ft. Newell & Stack, substructure and superstructure, $44,830. W. S. Hewitt, superstructure only, including removal of old structure and piling material within 1,000 ft. of old site, $29,500. J. B. Marsh, three river foundations, $8,100; two shore foundations, $3,200; substructure, $31,500; new steel superstructure, $19,100; taking down and removing old spans, $600; taking down and removing old substructure, $400; will allow for old bridge and piers, $600; bids 5, 6 and 7 contingent upon acceptance of bid No. 4. Milwaukee Bridge & Iron Works, superstructure and substructure, $48,272; superstructure, $29,032; deduct the sum of $400 from each of above bids if allowed to retain old materials in old bridge. Bids based upon using 4-in. rock elm plank. H. E. Horton, bridge complete with elm floor, $50,736; bridge complete, oak floor, $51,736; taking down old bridge if it becomes the property of city, $1,000; if it becomes bidders' property, nothing. Gillette-Herzog Mfg. Co., superstructure $31,300; foundation, $19,000; will remove old bridge if given material. Pittsburg Bridge Co., substructure and superstructure, $50,500. The Canton Bridge Co., superstructure, including taking down old spans, material to become the bidders, $36,000; superstructure complete, including taking down old spans and hauling it not over 1,000 yards, material to remain property of city, $36,500; substructure, $19,000; will not take substructure without superstructure. Wisconsin Bridge & Iron Co., superstructure and substructure, $47,794; superstructure, $28,998; above bids include taking down and removal of present bridge; bid is based on rock elm plank in roadway. Wrought Iron Bridge Co., substructure, including piers and abutments, $18,997 superstructure, including taking down and removing old bridge, $31,773; substructure and superstructure, $50,493; remove old bridge for the material. L. H. Johnson, superstructure, $31,897. Hoff Bros., Redwing or Winona stone in the three river piers and Dunnville stone for abutments, bridge complete, $50,900; Redwing or Winona stone throughout, $52,700; Kettle River sandstone in the three river piers and Dunnville stone for abutments, $51,800; Kettle River stone throughout, $56,000. Carnegie Steel Co., Ltd., superstructure, $28,137; removing old bridge, included in above, $250; substructure and superstructure, including taking down old bridge and piling where designated by engineer, $46,922; removing old bridge, included in above, $250. C. A. Alderman, Cy. Engr.

ST. PAUL, MINN.—The county commissioners have passed a resolution authorizing the Minneapolis, St. Paul & Sault Ste. Marie Ry. Co. to construct a bridge at Rice St., with two spans 45 ft. wide, with a trestle support in the center, affording two roadways each 18 ft. clear; estimated cost, about $9,500. Thos. Greene, Acting Ch. Engr.

BURLINGTON, IA.—J. H. Sparks & Co., St. Joseph, Mo., have been awarded a contract at $3,640 for five county bridges.

CORYDON, IA.—Bids are asked until Nov. 1 for constructing a bridge of wood and iron, according to reports. W. E. Dennis, County Audr.

OLIVET, S. DAK.—Bids are asked until Nov. 11 for constructing a steel bridge over the James River, of three spans, 185, 50 and 35 ft. and two other bridges of 40 and 30 ft. spans, respectively, according to reports. J. S. Mueller, County Audr.

ST. JOSEPH, MO.—Bids are asked until Oct. 20 for constructing and repairing certain bridges, according to reports. Theo. Steinacker, County Surveyor.

HOUSTON, TEX.—We are informed that bids will soon be asked for a bridge over Buffalo Bayou, on Franklin Ave. W. Bradburn & Co., Engrs.; I. A. Miller, Cy. Engr.; P. S. Banner, Secy.

SPOKANE, WASH.—J. W. Strack, County Surveyor, writes us that a contract was awarded Sept. 30 to Oliver Bros., Spokane, at $775, for constructing two 60-ft. Howe truss spans, with 40-ft. approaches and 16 ft. wide, on crib and rock filled foundation, near Latah, Wash. He also states that a new bridge, probably a combination Pratt truss of 200-ft. span and approaches, will be advertised by the county commissioners about Oct. 17, to be built over the Spokane River, 18 miles east of Spokane; estimated cost, about $5,000. J. W. Strack, Design. Engr., Spokane.

FRESNO, CAL.—Bids will soon be asked by the county supervisors for constructing a bridge 520 ft. long of two spans 120 ft. each; estimated cost, $10,000. Address County Surveyor Hoxie.

LOS ANGELES, CAL.—It is reported that J. H. Dockweiler, Cy. Engr., is preparing plans for three bridges to cost about $23,000. One on Ninth St., Ave. 26 and Hollenbeck Park. The bonds have been sold and bids will soon be asked.

OAKLAND, CAL.—Bids are asked until Nov. 7 for the construction of the Webster St. bridge over San Antonio Estuary, and removing the foundation of the old structure. Frank C. Jordan, Clk. Supvs.

SAN JOSE, CAL.—Bids are asked by the county supervisors until Nov. 9 for constructing a bridge over Isabel Creek, on the Kincaid Road.

BUILDINGS.

BURLINGTON, VT.—Prescott, Buckley & Callanan, Keeseville, N. Y., were the lowest bidders for the construction of a new high school building in this city, at $82,400. Supt., H. O. Wheeler; Arch., W. R. B. Wilcox, of Burlington.

BROOKLINE, MASS.—The following bids were received Oct. 6 for the erection of a building for police and court purposes, at Washington and Prospect Sts.; bids were submitted for a building of granite and brick or entirely of granite: W. H. & H. A. Root, $67,177 and $72,572; Woodbury & Leighton, $73,546 and $73,546; McNeil Bros., $67,900 and $72,700; Ira G. Hersey, $67,700 and $71,000; Watts H. Bowker, $63,979.85 and $67,479.85; Charles King & Co., $68,000 and $72,000; Mack & Moore, $62,700 and $65,700; Norcross Bros., $74,337 and $76,426; Johnson Bros., $66,984 and $69,754; H. P. Cummings & Co., $66,839 and $70,119; C. H. Dodge, $68,506 and $71,659; E. W. Clark & Co., $65,591 and $70,140. For heating and ventilating: Walworth Construction & Supply Co., $3,225; Huey Bros., $2,797; Smith & Anthony Co., $3,449 and $3,212; Walker & Pratt Mfg. Co., $4,345; A. B. Franklin, $4,720; Buertal & Co., $3,339; Ingalls & Kendricken, $2,972. For plumbing: Burkett & Co., $4,635; Joseph Tucker & Sons, $3,750; Pierce & Cox, $3,865; C. H. Cronin, $3,726; John Manning, $3,970.

BALLSTON SPA, N. Y.—F. R. Comstock, Arch., 98 5th Ave., New York, is completing plans for a large high school building at this place. The exterior will be of cut stone and red face brick and black slate roof with copper trimmings; the interior finish will be of hard wood, with partitions of metal lath.

BUFFALO, N. Y.—Bids will soon be asked, according to reports, for erecting a new school building to replace School No. 16. Plans have recently been approved for a 20-room building, to cost $75,000. Arch., Frederick Mohr, 265 East Utica St.

DAVIDS ISLAND, N. Y.—M. Gibbons & Son, Brooklyn, N. Y., have been awarded the contract for erecting new hospital buildings on Davids Island, opposite New Rochelle, to cost about $30,000. Work is to commence at once.

GOWANDA, N. Y.—Edward P. Bates, of Buffalo, was the lowest bidder, Oct. 4, for piping for steam supply to the hospital buildings, at $9,384.

NEWARK, N. Y.—Bids are asked until Oct. 20 for erecting a cottage dormitory on the Custodial Asylum grounds at Newark. Address E. K. Burnham, Treas.; C. W. Winspear, Supt., both of Newark.

NEW YORK, N. Y.—Bids are asked until Oct. 15 for erecting a new church building, at Central Park West and 68th St., for the Second Church of Christ (Scientist). Plans call for a steel frame building, and floors and partitions to be of the wire construction, with concrete, 90 × 96 ft., with an auditorium to seat 1,000 persons. The exterior will be of marble, with roofing of Blacksley and copper, and the floors of marble. All wood work will be of mahogany, and there will be considerable bronze work. Address F. R. Comstock, Arch., 98 5th Ave.——Bids are asked by the board of education, at 585 Broadway, until Oct. 17, for supplying new furniture for Public Schools 42, 158 and 160, Borough of Manhattan; also for paving, grading, etc., at Public School 20, Borough of Richmond; also for heating and ventilating apparatus and electric light plant for Public School 167, Borough of The Bronx, etc.——Bids are asked by the fire department, 157 East 67th St., until Oct. 19, for erecting a building for the department on Main St., 150 ft. east of Arnow Place, Borough of The Bronx; sureties, $4,000.——Bids are asked by the department of parks, Arsenal Bldg., until Oct. 20, for the construction of a range of greenhouses and appurtenances in Central Park, near Fifth Ave. and 105th St.——Plans will be received until Nov. 1, according to reports, for a new 6-story fireproof hospital building, to be erected by the Beth Israel Hospital, 206 East Broadway, at Jefferson and Cherry Sts., to cost about $75,000. Harry Fischel, Chn. Bldg. Com., 215 East Broadway.——Plans have been filed by Mrs. Mary Schafer, 640 Eagle Ave., for four 4-story brick flat and store buildings, at German Place and 157th St., to cost $80,000. Arch., Edward Wenz, 1491 3d Ave.; by Hammerstein Amusement Co., for a 4-story brick concert hall, at 42d St. and 7th Ave., to cost $50,000. Archs., J. B. McElfatrick & Son, 1402 Broadway; by Joseph A. Farley, for four 4-story brick dwellings, on 108th St., near the Boulevard, to cost $110,000. Archs., James & Leo, 967 Boulevard; by Babette Blumenthal, 1840 3d Ave., for four 5-story brick flat buildings, on 118th St., near 5th Ave., to cost $104,000. Arch., Rudolph Werner, 1825 Vanderbilt Ave.; for eight 4-story brick flat buildings, at Jackson Ave. and 156th St., to cost $84,000. Arch., W. C. Dickerson, 3d Ave. and 149th St.; by Isaac Mayer, 69 East 107th St., for four 5-story brick flat and store buildings, at 82d St. and Park Ave., to cost $114,000. Arch., John Hauser, 1441 3d Ave.; by McCracken & Dagnell, 400 West 152d St., for four 5-story brick flat buildings, on 149th St., near the Boulevard, to cost $95,000. Arch., Neville & Bagge, 217 West 125th St.

NEW YORK, N. Y.—Bids are asked by the department of correction, 148 East 20th St., until Oct. 24, for installing three elevators on Blackwell's Island; two sureties, $7,000 each.

OGDENSBURG, N. Y.—Breen Bros., of Utica, have secured the contract for heating the new infirmary building of the State Hospital at Ogdensburg, at $6,700.

TROY, N. Y.—Behan & Casey were awarded the contract for the stone work on the erection of the new high school building in this city, at $76,430, using Indiana limestone; Nial Bros. received the contract for carpentry work, at $17,868; William Loeble, for roofing, at $2,985; M. Mahoney, for heating and ventilating, at $9,708, and for steel and iron work, $13,400. Bids are asked for plumbing and gas fitting until Oct. 14. Other bidders on the masonry work were E. Broderick & Son, $95,304; Jas. H. Morrissey, Indiana stone, $81,300; Chas. Crowley, Indiana stone, $87,712; Wm. Ellis, Indiana stone, $94,800; P. H. Buckley, $106,000; C. P. Boland, of Troy, Indiana stone, $92,553. Arch., F. M. Cummings, Times Bldg., Troy.

ATLANTIC CITY, N. J.—A fire in this city, Oct. 8, destroyed a number of amusement buildings at Tennessee, New York and Ocean Aves., causing a reported loss of $200,000.

OCEAN GROVE, N. J.—The contract for the steam heating plant for the Memorial Hospital has been awarded to Bazley & Burns, of Long Branch, N. J., to cost about $1,800.

SOMERVILLE, N. J.—Bids are being received by J. E. & A. L. Pennock, 305 Walnut St., Philadelphia, Pa., according to reports, for erecting a 2-story fireproof school building at this place. Arch., Wm. E. Bloodgood, 64 Cedar St., New York.

PHILADELPHIA, PA.—Contracts will soon be let for erecting the proposed Lyric Theatre building, at Haverford and Belmont Aves., to cost about $150,000. Arch., J. D. Allen, 1017 Chestnut St.——Contractors Doyle & Doah have been granted a permit to build a new 3-story brick and stone building for the Children's Homeopathic Hospital, to cost about $50,000. Archs., Keen & Mead, 13th and Walnut Sts.——Jackson, Hook & Co. have received the contract for the erection of a 1-story brick and iron storage warehouse, 55 × 150 ft., at McKean St., near Moyamensing Ave., for Thomas, Roberts & Stevenson.——The following were the lowest bids submitted by the different bidders, Oct. 3, for erecting the superstructure, except interior finish, of the U. S. Mint building in this city; the first sum is for marble and the second for granite: Allen B. Rorke, Philadelphia, (a) New Hampshire marble, $505,000, (b) Holmesburg, Pa., granite, $450,000; James B. Smith, New York, (a) Beaver Dam, Md., $550,983, (b) Hurricane Island, Me., $516,170; Norcross Bros., Worcester, Mass., (a) Georgia, $480,000, (b) Troy, $483,000; George Mann, Baltimore, (a) Beaver Dam, Md., $499,000, (b) Woodstock, Md., $482,500; Charles McCaul, Philadelphia, (a) New York light, $528,743, (b) Mt. Desert, $441,743; Amberg Granite Co., Chicago, (a) Amberg, $550,000; J. E. & A. E. Pennock, Philadelphia, (a) Lee, Mass., $568,000, (b) Woodstock, Md., $545,000; John Gill & Sons, Cleveland, O., (a) Ashley Falls, Mass., $520,000, (b) Hummelstown white, $469,500; McIlvain, Unkefer & Co., Pittsburg, (a) Cockeysville, Md., $559,773, (b) Lacolet, $487,492; Girard Construction Co., Philadelphia, (a) Dorset, Vt., or Lee, Mass., $600,300, (b) Walboro, Me., $515,000; P. J. Carlin & Co., Brooklyn, N. Y., (a) Beaver Dam, $497,393, (b) Walboro, Me., or Petersburg, Va., $467,000; William H. Ellis, Cincinnati, (a) Georgia, $604,900; (b) Blue Hill, Me., $492,000; Prescott, Buckley & Callanan, Keeseville, N. Y., (a) Lee, Mass., $494,000, (b) Hurricane Island, $471,200; William Booth & Co., New York, (a) Hurricane Island, $471,200; D. W. Thomas, Baltimore, (a) Beaver Dam, $570,000 (b) Woodstock, Md., $545,000.

PITTSBURG, PA.—Kerr & Fox have been awarded the contract for erecting engine house No. 28, at Filbert and Elmore Sts., at $33,324.

SCRANTON, PA.—Plans are being completed for a stone residence to be erected in Scranton for L. A. Watres, including three cottages, a large stable, and boiler house containing heating and lighting plants. Arch., F. R. Comstock, 98 5th Ave., New York.

WILKESBARRE, PA.—E. T. Long has been awarded the contract for the erection of the new asylum building at Retreat by the central poor board, at $159,071.

WASHINGTON, D. C.—Bids are asked until Oct. 15 for the erection of a frame refreshment pavilion, covering about 18,000 sq. ft., with cellarage, etc., on the west shore of Chesapeake Bay, about 55 miles south of Baltimore, at the terminus of the Chesapeake Beach Ry. from Washington. Address the company, 1420 New York Ave., N. W., Washington, D. C.

BALTIMORE, MD.—The receivers of the Baltimore & Ohio R. R. have adopted plans and are about ready to let the contract for a new $100,000 inbound freight station in Baltimore. The new building will be 600 ft. long, 42 ft. wide and 6 stories high, and will occupy the site of the present inbound station on Eutaw St., between Camden and Barre Sts. The new building will have a cold storage plant in the basement, and the upper floors will be used as a storage warehouse, and all freight will be loaded and unloaded from wagons under cover. The tracks will be so arranged that 75 cars can be unloaded at one time.

RALEIGH, N. C.—Bids will soon be asked for the erection of a new cathedral in this city for the Church of the Good Shepherd (Episcopal), to cost between $25,000 and $40,000. Rector, D. I. McK. Pittinger.

COLUMBUS, GA.—Bids are asked by the supervising architect, Washington, D. C., until Oct. 21, for the completion of the interior finish, plumbing and approaches of the post-office building.

MOBILE, ALA.—Bids are asked until Oct. 31 for furnishing metal work for six day beacons for Florida Reefs, as stated in our advertising columns. Lt.-Col. A. N. Damrell, U. S. Engrs., Mobile.

TOLEDO, O.—A. Bentley & Son are stated to have received the contract for erecting a building on Cherry St., to be occupied by the Dow-Snell Co., to cost about $50,000.

LOWELL, IND.—The Post Office Building, Nichols Opera House and adjacent buildings were damaged by fire, Oct. 6, causing a reported loss of $40,000.

DETROIT, MICH.—Robert Y. Ogg, Secy. Bd. of Pub. Wks., informs us that H. P. O'Connell, of Detroit, was the lowest bidder for erecting the market building, at $9,570.

CHICAGO, ILL.—Plans have been completed for the new 9-story Ayer building, to be erected at 215 and 221 Wabash Ave., at an estimated cost of $225,000. Archs., Holabird & Roche, 1618 Monadnock Block.——Plans have been prepared, according to reports, for a new building to be erected for the All Soul's Church, at Langley Ave. and Oakwood Boulevard, to cost $100,000. Arch., Dwight H. Perkins, 1107 Steinway Hall.——A building permit has been granted to Lincoln Brooke for a 5-story apartment building, to be erected at 3600 to 3604 Wabash Ave., to cost $105,000.

CHICAGO, ILL.—Bids are asked by the department of public works, L. E. M'Gann, Comr., until Oct. 24, for erecting the fire engine house at Michigan Ave. and Washington St.; deposit, $5,000.

FREEPORT, ILL.—We are informed that bids will be received until Oct. 17 for all of the superstructural masonry, wrought and cast-iron work, slate and metal roofing, and all of the carpenter work and material necessary to prepare the new city hall building for plastering. Geo. H. Tandy, Cy. Clk.; D. S. Schureman, Arch., 215 South Church St., Rockford, Ill.

DAVENPORT, IA.—Plans are being prepared for a 5-story brick office building, to be erected here for M. D. Peterson, to cost about $50,000. Archs., Clausen & Burrows, 205 West 3d St.

DES MOINES, IA.—The commissioners of Polk county have decided to submit to the people at the November election a proposition for the issuance of $400,000 in bonds for the erection of a new county court house.

SPENCER, IA.—The proposition of erecting a new $40,000 court house for Clay county will be considered at the November election.

GENOA, NEB.—Bids are asked by the Department of the Interior, Washington, D. C., until Oct. 28, for the construction of a combination high and low pressure steam-heating plant at the Genoa Industrial School. Supt., J. E. Rose, Genoa.

OMAHA, NEB.—The Grace & Hyde Co., Chicago, Ill., has been awarded the contract for erecting the new union station for the Union Pacific Ry. Co., to be 350 ft. in length. The Crane Elevator Co., Chicago, will erect the electric elevators, and John Rowe & Co., Omaha, Install the plumbing. Total estimated cost, $300,000. Archs., Frost & Granger, Chicago.

ELLENDALE, N. DAK.—Bids are asked until Nov. 15, according to reports, for erecting a building for the State Industrial and Manual Training School. T. H. Fans, Secy. Bd. of Trustees, Ludden, N. Dak.

OGDEN, UTAH.—Bids are asked until Oct. 17 for lining the county jail with sheet steel; bond, $250. John Seaman, Com. in Charge.

WATER-WORKS.

BERWICK, ME.—At the town meeting held Oct. 3 it was voted to postpone action with reference to securing a better water supply.

PLYMOUTH, N. H.—A committee has been appointed to investigate the question of the municipal ownership of the works and to submit a report Nov. 24. The town appropriated $500 for expenses of the committee, which is composed of J. N. McCoy, Frank H. Rollins and C. J. Ayer.

BOSTON, MASS.—Bids are asked until Oct. 17 for furnishing the Pauper Institutions Department with 134 tons of cast-iron water pipe; bond, $1,000. Chn. Trustees, Wm. T. Sedgwick, 28 Court Square, Boston.

NEEDHAM, MASS.—Bids are asked until Oct. 17 for constructing a supply well. Engr., Louis E. Hawes, Tremont Bldg., Boston; Chn. Comrs., Edmund G. Pond.

BAINBRIDGE, N. Y.—Bids are asked until Oct. 15 for constructing the proposed works and for furnishing the hydrants. The contract for furnishing 34,000 ft. of pipe was let Oct. 8. There will be required 40 hydrants, 20,000 lbs. special castings, a reservoir, etc. J. C. Scott, Clk., writes us that the water supply will be secured from a creek; estimated cost, $22,000. Engr., J. Warren Lamb, Cooperstown, N. Y.

BUFFALO, N. Y.—Esenwein & Johnson, Mooney Bldg., have submitted plans to the board of public works for the $700,000 pumping station. It will have eight boilers and engines.

CANISTEO, N. Y.—Press reports state that the council is considering the question of purchasing the works of the Canisteo Water-Works Co.

CHURCHVILLE, N.Y.—C. H. Sage writes us that the proposed new works will require a triplex power pump, a stand-pipe, 12 × 75 ft.; 6,000 ft. of 3-in. and 3,000 ft. of 4-in. cast-iron water pipe; 12 to 15 hydrants, one 4-in. gate valve, etc.; estimated cost, $4,000. A special election will be held soon to vote on the question.

IRVINGTON, N. Y.—At the election Oct. 4 this place voted to appropriate $50,000 for extending the water-works.

NEW YORK, N. Y.—Bids are asked until Oct. 20 for improving the pumping plant at Queens Point, Queens and for furnishing and laying water pipe in the Southern Boulevard, Manhattan. Comr. Water Supply, Wm. Dalton, 150 Nassau St., New York.

SARATOGA SPRINGS, N. Y.—The village engineer has submitted plans and specifications for a main from the Greenfield reservoir; estimated cost, $4,000.

ALLENHURST, N. J.—An election will be held Nov. 4 to vote on the question of purchasing the works of the Coast Water & Sewer Co.

NEWARK, N. J.—The board of works has ordered the sinking of more wells at Belleville for a better water supply.

ORANGE, N. J.—Press reports state as follows: Four reports on the question of increasing the water supply of Orange were presented at the meeting of the council Oct. 3, and after each had been read it was decided to engage another consulting engineer to meet with the council. City Engineer Fred. T. Crane, and Peter Milne, consulting engineer, 1241 Dean St., Brooklyn, N. Y., and discuss the various reports. The various plans suggested are to lay a 16-in. main from the present reservoir to Scotland St., to enlarge Campbell's Pond, to locate another reservoir at Hemlock Falls, when it would be necessary to build a pumping station on South Orange Ave., and then connect with a 16-in. main to the city; a pump at the sewage pumping station in Orange Valley, and the purchase of land for a reservoir at St. Cloud with a main running to Northfield Road, which would require a station to pump water into the present reservoir; estimated cost, about $100,000.

SPRING LAKE, N. J.—Bids are asked until Oct. 15 for the purchase of $70,000 of 30-year 5% gold bonds for constructing the proposed works and a sewerage system. Mayor, E. V. Patterson.

ALLENTOWN, PA.—The council has passed to the second reading an ordinance appropriating $14,000 for the purchase of Schantz's spring, four miles west of the city.

NORRISTOWN, PA.—The Norristown Water Co. has offered to build a 12-in. water main in Main St., at a cost of about $1,500.

PHILADELPHIA, PA.—Bids were opened at the Bureau of Water Oct. 4 for improvements to the Roxborough pumping station, the lowest and the highest bids for each item being as follows: Boilers, I. P. Morris Co., $27,742; Robert Wetherill & Co., $28,800; Brick chimney, Macy, Henderson & Co., $8,487; S. Opdyke, Jr., $14,360. Annex to boiler house, H. C. Nichols Co., $17,983; S. Opdyke, Jr., $34,600.

TYRONE, PA.—The council has offered to purchase the works of the Tyrone Gas & Water Co. for $90,000. This place voted July 7, 1897, to purchase the works.

INDIAN HEAD, MD.—E. S. Brandt, Ch. Clk. Bureau of Ordnance, Navy Dept., Washington, D. C., writes us that the following bids were received Oct. 8 for furnishing and installing a steel stand-pipe:

		Days.
Robt. Wetherill & Co., Chester, Pa.	$10,250	180
R. D. Wood & Co., Philadelphia	8,200	120
Riter-Conley Co., Pittsburg, Pa.	9,757	115
Maryland Steel Co., Sparrows Point	13,124	150

WASHINGTON, D. C.—Otto Mears, Pres. Chesapeake Bay Construction Co., 1420 New York Ave., N. W., Washington, writes us that the company will soon ask for bids to build water-works at Chesapeake Bay terminus of the railway, the plant to be so constructed as to furnish power also for electric lights. The company will ask for plans to be submitted for works of the character mentioned to supply a town of 5,000 people.

NORFOLK, VA.—Bids are asked until Oct. 26 for constructing dams, waste weirs and canals for an addition to the water-works and canals, as stated in our advertising columns. H. L. Smith, Supt. Water Dept.

DURHAM, N. C.—Judge Purnell, of the Federal Court bench, at Raleigh, has appointed P. H. Hardy, Philadelphia, Pa., as receiver for the Durham Water Co.

GREENSBORO, N. C.—It is stated that the city proposes to issue bonds for new works and a sewerage system, to cost about $50,000.

SALEM, N. C.—New York and New Jersey parties, who are about to build a manufacturing plant here, propose to construct works and a sewerage system.

ORANGEBURG, S. C.—This place voted Sept. 27 to issue $40,000 in bonds for works and a light plant. Dr. J. G. Wannamaker, M. Thomas and Dr. T. C. Doyle are on the committee.

SYLVANIA, GA.—E. K. Overstreet writes us that the election to vote on the question of issuing bonds for an artesian well was postponed.

MONROE, LA.—At the election Nov. 9 this place will vote on the question of issuing $153,000 in bonds for purchasing the works and light plant of the Monroe Water-Works & Light Co. and for building a sewer system, etc.

NATCHITOCHES, LA.—It is probable that this place will again soon vote on the question of issuing bonds for works and a light plant. Estimated cost, about $20,000. Population, 2,000.

WHITE CASTLE, LA.—Local papers state that a company will be organized to build works.

KNOXVILLE, TENN.—The question of the city purchasing the works of the Knoxville Water Co. is being considered by the council. Alderman W. H. Goss may be addressed.

BRAZIL, IND.—The question of securing an increased water supply from the Wabash River, a distance of 12 miles, is being considered by the council, according to reports. Estimated cost, $125,000.

ROCKVILLE, IND.—Jas. B. Nelson, 61 Baldwins Block, Indianapolis, Ind., has prepared plans and specifications for combined works and electric light plant. It is the intention of the council to let the contract without delay. Population, 2,500.

EATON RAPIDS, MICH.—Bids are asked until Oct. 18 for the power house, stand-pipe, pumps and boilers for the proposed works, as stated in our advertising columns last week. Bids were opened Oct. 4 for furnishing the pipe, castings, etc. Secy. Bd., Jas. H. Gallery.

IRONWOOD, MICH.—It is proposed to extend the works of the Ironwood Water Co. It is probable that a stand-pipe will be erected on the hill north of the city. Supt., J. S. Kennedy.

CHICAGO, ILL.—Bids are asked until Oct. 15 for building an addition to the 68th St. pumping station. Comr. Pub. Wks., L. E. McGann.

ASHLAND, WIS.—Bids are asked until about Oct. 20 for furnishing the materials and for building a water filter, with piping, etc., at the Vermillion Lake Scho l near Tower, Wis. Address the U. S. Indian warehouse, 1602 State St., Chicago, Ill., the Indian office, Washington, or S. W. Campbell, U. S. Indian Agent, La Pointer Agency, Ashland.

CANBY, MINN.—It is reported that estimates for works will be secured after which an election to vote on the question will be held.

LITTLE FALLS, MINN.—This place voted Oct. 4 to issue $60,000 in bonds for works and an electric plant, according to reports.

PERHAM, MINN.—Bids are asked until Oct. 18 for furnishing the materials and for constructing small works and a light plant. Engr., Chas. F. Loweth, St. Paul, Minn., and 301 W. 3d St., Davenport, Ia.; Recdr., R. E. Bachman.

ADAIR, IA.—The question of building works to cost about $10,000 is being considered, according to reports.

BLOCKTON, IA.—This place voted Oct. 1 to issue bonds for works. Population 1,000.

UTE, IA.—J. R. Carter writes us that an election will be held Oct. 20 to vote on the question of issuing bonds for works. Population, 450.

FREMONT, NEB.—It is proposed to extend the water mains in Nye and Maxwell Aves.

JAMESTOWN, N. DAK.—Bids are asked until Nov. 1 for sinking a 4 and 6-in. artesian well 1,500 ft., with and without guarantee of water. City Audr., Geo. C. Eager.

BRITTON, S. DAK.—R. C. Libbey, it is stated, proposes to sink an artesian well.

CORSICANA, TEX.—Upton Blair, Engr. Compress Co., is reported as investigating sources for a water supply.

SHAWNEE, OKLA.—Bids are asked until Oct. 20 for furnishing the materials and for building works; estimated cost, $35,000. Check, $1,000. Address R. H. Clayton and E. E. Hood.

RENO, NEV.—Bids are asked until Nov. 12 for the purchase of $130,000 of 6% water bonds for the proposed works. Pres. Council, R. S. Osburn; Clk., F. B. Porter.

WARD, COLO.—This place voted Sept. 27 to issue $12,000 in bonds for works. As soon as the bonds are sold bids for the construction will be asked. Engr., D. J. McCanne, 1600 17th St., Denver, Colo.

OAKESDALE, WASH.—The construction of works is proposed, according to reports.

ROSALIA, WASH.—The council has levied a tax of 7 mills for the proposed works to cost about $2,500.

SAN LUIS OBISPO, CAL.—The town trustees have voted to take definite steps at once for the construction of municipal works to cost about $90,000. Cy. Clk., J. A. Goodrich.

WHITTIER, CAL.—Plans for the proposed works prepared by Burr Bassell, 524 Stimson Block, Los Angeles, Cal., have been accepted by the city trustees. About $40,000 of 20-year bonds will be sold. Cy. Engr., J. J. Jessup.

SHERBROOKE, QUE.—The following improvements to the works have been recommended by Willis Chipman, Bay St., Toronto, Ont.: Larger intake pipe, $4,000; duplicate of pumping machinery, $3,000; repairs to reservoir and new main, $4,000; filtration plant, $18,000; replacing of water mains, $33,000.

ST. CATHARINES, ONT.—The question of making certain improvements to the works and for putting in a filtration plant of 1,000,000 gallons capacity, is being considered; estimated cost, $14,000.

NEW DENVER, B. C.—J. C. Harris, it is stated, proposes to construct works for this place. Water will be secured from wells two miles distant.

PACHUCA, MEX.—Press reports state that the state government of Hidalgo has purchased the Pachuca water-works for $250,000, payable in installments extending over more than ten years. The plant consists of dams and reservoirs, eleven kilometers of conduits and four kilometers of distributing pipe, and said to be in first-class condition.

MATEHUALA, SAN LUIS POTOSI, MEX.—Press reports state that W. B. A. Dingwall proposes to build works for this city.

SEWERAGE.

BOSTON, MASS.—The Metropolitan Sewerage Commission has awarded the contracts for proposed additions to the pumping plants at Deer Island, on the southerly side of Chelsea Creek, in East Boston, and at Malden bridge, in Charlestown, to the E. P. Allis Co., of Milwaukee. The bid for that at Deer Island is $27,200; at East Boston, $25,600; at Charlestown, $25,800. Chief Engineer Brown, of the commission, is busy making a study for the new high level sewerage system for the Charles and Neponset River valleys.

CONCORD, MASS.—The contract for preparing the sewage filtration beds for this place has been let to J. W. Meskill, 164 Broadway, Everett, Mass., at $1,473. The itemized bids will be given next week. Engr., Leonard Metcalf, 89 State St., Boston.

NEWTON, MASS.—Bids are asked until Oct. 21 for furnishing about 90,000 ft. of 24 to 4-in. sewer pipe, about 4,700 bbls. of American cement, 800 lbs. of Portland cement and 200 cast-iron manhole frames and covers; check, $200. St. Comr., Chas. W. Ross.

SPRINGFIELD, MASS.—Bids are asked until Oct. 14 for constructing 600 ft. of egg-shaped, 26 × 39-in. brick sewer. Cy. Engr., Chas. M. Slocum; Supt. of Sts., Wm. L. Dickinson.

WATERTOWN, MASS.—Bids are asked until Oct. 25 for building a sewer at the Watertown Arsenal. Maj. J. W. Reilly, Ordnance Dept., Commanding.

BINGHAMTON, N. Y.—The council has voted to build a sewer in Clinton St. Mayor, Jerome De Witt.

BUFFALO, N. Y.—Mayor Diehl has vetoed the ordinance appropriating $90,000 for a sewer in Emslie and Van Rensselaer Sts.——The council has voted to build a sewer in Bryant St.

BUFFALO, N. Y.—The filling of the Hamburgh Canal is being agitated and plans have been prepared by City Engineer Bardol. The sewage disposal and filling of the canal will cost about $700,000.——New bids will be asked for constructing a sewer in Hampshire and Ferry Sts., to cost about $34,000.

NEWBURG, N. Y.—The board of public works has recommended that the council build an iron pipe and brick relief sewer in First St., fro Dubois St. to the river, at a cost of about $36,600. Cy. Clk., D. J. Coutant.

ONEIDA, N. Y.—The council will be petitioned Oct. 18 to extend the sewers.

ROCHESTER, N. Y.—H. N. Cowles was awarded contract Oct. 3 for building a sewer in North Clinton St., at $8,867.

HOBOKEN, N. J.—Local papers state that steps have been taken by the council for improving the sewers in the uptown section of the city. It is said that this is the first movement towards the reconstruction of the system of the city. Cy. Surv., W. F. Whittemore.

SPRING LAKE, N. J.—Bids are asked until Oct. 15 for the purchase of $70,000 of 30-year 5% bonds for a sewerage system and water-works. Mayor, E. V. Patterson.

CARLISLE, PA.—Maj. Chauncey Ives, Chambersburg, Pa., has been engaged to prepare plans, etc., for a system.

KINGSTON, PA.—Plans for a system have been prepared by Borough Engineer Wright. Burgess Starbird may be addressed.

WASHINGTON, D. C.—Bids are asked by the district commission until Oct. 22 for building sewers.——Local papers state that Capt. Lansing H. Beach, the District Engr. Comr., has returned from a visit to Boston and Brockton, Mass., and Providence, R. I. He inspected the sewage pumping stations, the precipitation works and the filtration beds of the sewer systems of those cities. Congress has appropriated $25,000 for the preparation of plans for a sewage pumping station at the fool of New Jersey Ave., and it was in connection with these plans that Capt. Beach made his trip north. It is proposed to pump the sewage across and under the Eastern Branch, from the point mentioned, and then raised to such a height as would cause the sewage, by natural gravitation, to flow into the river, several miles below. It is believed the sewage can be carried across the hills at less expense than it would cost to precipitate it. It is the purpose of the Commission to use every effort to secure the necessary appropriations at the coming session of Congress.

RICHMOND, VA.—The question of improving the Fifth St. sewer is being considered.

TAMPA, FLA.—Bids are asked until Oct. 25 for furnishing the materials and for constructing 40,000 ft. of pipe sewers and house connections, as stated in our advertising columns. Ch. Engr., J. N. Hazlehurst; Pres. Bd. Pub. Wks., W. B. Henderson.

MEMPHIS, TENN.—The council proposes to spend $150,000 for sewers. Mayor Williams may be addressed.

COLUMBUS, O.—Bids are asked until Oct. 18 for building an 18 and 12-in. pipe sewer in Spruce St. Clk. Bd. Pub. Wks., Jas. A. Fanning.——The residents of the West Side have petitioned the council to build additional sewers to drain that portion of the city.

EAST CLEVELAND, O.—Bids are asked until Nov. 5 for constructing sewers in a number of streets. Engr., Walter P. Rice Engineering Co., Society for Savings Bldg., Cleveland; Clk., H. B. Chapman.

HAMILTON, O.—Bids are asked until Oct. 17 for constructing a storm sewer in Fourth St. Cy. Engr., L. A. Dillon; Cy. Clk., M. O. Burns.

LEBANON, O.—Bids are asked until Oct. 22 for constructing 1,262 ft. of 12-in. and 182 ft. of 6-in. pipe sewers, with necessary appurtenances. Cy. Engr., W. R. Kemper.

TOLEDO, O.—Bids are asked until Oct. 24 for constructing 15 and 12-in. pipe sewers in certain streets. Cy. Clk., L. P. Harris.——Bids will be asked at once to construct an 84 to 66-in. brick sewer in certain streets.

WELLSVILLE, O.—E. J. Millar, Wheeling, W. Va., has submitted plans and specifications for a system. At the election to be held Nov. 8 the question of issuing $75,000 in bonds for the system will be voted upon.

HUNTINGTON, IND.—Bids are asked until Oct. 25 for constructing a 24-in. pipe sewer in Warren St. Cy. Engr., Frank Guthrie; Cy. Clk., C. H. Cutshall.

INDIANAPOLIS, IND.—The city engineer is preparing plans for sewers in a number of streets to cost a total of about $160,000.

INDIANAPOLIS, IND.—Bids are asked until Oct. 19 for building sewers in West Michigan St. Pres. Bd. Pub. Wks., M. A. Downing.

LOGANSPORT, IND.—Bids are asked by the sewer committee for building 1,100 ft. of 30-in. pipe sewer in Penn St., to cost $1,200.

MONTICELLO, IND.—Bids are asked until Oct. 28 for building a 30-in. pipe sewer in Washington St. Pres. Bd. Trustees, M. Wolz; Clk., W. M. Hamlin; Cy. Engr., Web. P. Bushnell.

RICHMOND, IND.—Bids are asked until Oct. 14 for building a certain sewer. Clk. Bd., Geo. J. Knollenberg.

WHITING, IND.—Bids are asked until Oct. 24 for furnishing the materials and for constructing about 2½ miles of pipe and about a mile of brick sewers. Town Clk., John G. Erdlitz; Pres. Bd. Trustees, C. A. Johnson.

GROSSEPOINTE, MICH.—The council proposes to build a trunk sewer to the lake front.

VICKSBURG, MICH.—The Vicksburg Sewer Co. has been incorporated to operate the system here. Capital stock, $2,000. Pres., Wm. W. Scott; Secy., Frank S. Coller; Treas., Elbert L. Page.

CHICAGO, ILL.—Bids are asked until Oct. 14 for building sewers in a large number of streets. Pres. Bd. Local Improvements, L. E. McGann.

ROCKFORD, ILL.—Bids are asked until Oct. 25 for furnishing the material and constructing certain sewers on the Eighth St. sewer district, as described in our advertising columns. E. W. Brown, Pres. Bd. Local Improvements; Edwin Main, Cy. Engr.

FARGO, N. DAK.—J. A. Johnson, Mayor, writes us that it is proposed to build a mile of 15 and 12-in. pipe sewers at a cost of $2.15 a ft. Cy. Engr., S. F. Crabbe.

DENVER, COLO.—We are informed that plans and specifications, report, etc., for storm sewers, to cost $400,664, were adopted Sept. 23. This amount is for main sewers alone, the largest of which will be 81 ins. in diameter. The plans as adopted contemplate the drainage of 2,100 acres at a total cost of about $1,000,000. The contracts for the storm sewers will probably be let Dec. 15. Des. Engr., Harvey C. Lowrie, Denver; Pres. Bd. Pub. Wks., S. N. Wood.

SANTA MONICA, CAL.—Press reports state as follows: Plans and specifications are being prepared for a branch sewer which is to afford drainage for a long stretch of beach places, from which the sewage cannot be carried by gravity into the new system. In order to dispose of the sewage draining into this branch, it will be necessary to raise it by pumping. A receiving tank will be located near central portion and in connection with it a 40-HP. pump will be installed. The tank will have a capacity of 100,000 gallons. The sewer will be built on a grade to drain into the basin, from which it may be pumped into the present trunk sewer and carried to sea. The pump will have a capacity of 100,000 gallons an hour. Of the 8,000 ft. of sewer proposed, only about 1,000 ft. are to be built soon. Cost of the whole of this branch is estimated at $13,000, and of that part to be built at once about $7,500. It will be paid for out of the $40,000 bond issue, which the city has made.

LACHINE, QUE.—The council is reported to have decided to take up the matter this winter of building a system for this place; estimated cost, about $200,000.

MERIDA, YUCATAN, MEX.—It is stated that a contract will soon be let by the municipal authorities for building a system for this city; estimated cost, $1,467,000; population, 60,000.

GARBAGE DISPOSAL—STREET CLEANING

ATLANTIC CITY, N. J.—The following bids were received by the council Oct. 3 for erecting a new garbage crematory: Rudolph R. Baizley, $31,585; Fred. T. Moore, $32,211, and Cyrus Borgner, $33,265. The bids were called to see if the contracts recently let for the work to Thos. K. Dalzell, at $29,000 was too high. The council, at an adjourned meeting Oct. 4, voted to reject the bids as too high, the estimate of Mr. Dalzell still standing.

WELLSVILLE, O.—The board of health has directed the secretary to ask for estimates for building a garbage disposal plant. Messrs. Dennis, Ashley and Whitacre, of the board, may be addressed.

MILWAUKEE, WIS.—It is stated that the Engel Cremation & Sanitary Co. will begin work in a few days on its proposed plant for this city. A bond for $52,500, the amount of the contract, has been deposited. Engr. and Supt., Robt. Robinson; Gen. Mgr., C. W. Smith.

LONG BEACH, CAL.—It is proposed by the town trustees to purchase a street sprinkling wagon for $2,500.

STREETS AND ROADS.

HALLOWELL, ME.—A contract has been awarded to A. G. Westcott for about 75,000 paving blocks, according to reports.

CHELMSFORD, MASS.—Bids are asked until 12 m., Oct. 13, for about 4,400 lin. ft. of highway. T. C. Mendenhall, Chn. Mass. Highway Comn., 4 Mt. Vernon St., Boston.

NORTH READING, MASS.—Bids are asked until 12 m., Oct. 13, for about 2,700 lin. ft. of highway. T. C. Mendenhall, Chn. Mass. Highway Comn., 4 Mt. Vernon St.

MERRIMAC, MASS.—Bids are asked until 12 m., Oct. 13, for 1,600 lin. ft. of highway. T. C. Mendenhall, Chn. Mass. Highway Comn., 4 Mt. Vernon St., Boston.

GLOUCESTER, MASS.—John J. Somes, Cy. Clk., informs us that the city will not purchase a new road roller, but will repair the old one at a cost of $800.

PITTSFIELD, MASS.—The commissioners of Columbia county, N. Y., and Berkshire county, Mass., will construct a road between Pittsford and New Lebanon, N. Y.; estimated cost, $7,875.

QUINCY, MASS.—Commissioner of Works Knowlton has estimated the cost of the proposed sidewalks at $7,807.

WESTERLY, R. I.—The council has voted to purchase a steam road roller.

ENFIELD, CONN.—Bids are asked until Oct. 20 for a section of new road on High and Enfield Sts. Henry D. Alden, First Selectman.

WOBURN, MASS.—John H. Time, Cy. Clk., informs us that the council has not provided funds for the proposed macadamizing, to cost $6,500, and the work will probably not be done this year.

DEERFIELD, N. Y.—The state board of public works, Albany, has awarded a contract to James J. Dwyer, Utica, at $13,806, for the improvement of the River Road, for about 2½ miles.

BUFFALO, N. Y.—Bids are asked until Oct. 21 for furnishing the material and for paving on Mechanic and Hydraulic Sts. R. G. Parsons, Secy. Bd. Pub. Wks.——A committee has been appointed to consider the proposed improvement of Niagara Square.

LANSINGBURG, N. Y.—Chas. A. Roemer, Cy. Engr., informs us that a contract has been awarded to Thos. H. Kane, Troy, N. Y., at about $64,000, for about 50,854 sq. yds. of macadam.

PATCHOGUE (L. I.), N. Y.—The village trustees have decided to have new sidewalks laid on Main St. and Ocean Ave., with stone or brick.

POUGHKEEPSIE, N. Y.—Bids were asked until Oct. 11 for repaving Crannell St., between Main and Mill Sts.; surety, $1,000. Chas. E. Fowler, Supt.

SILVER CREEK, N. Y.—The city council has engaged O. H. Gardner, Jamestown, N. Y., to make a survey of the town and establish a grade throughout the village.

SYRACUSE, N. Y.—The council has passed a resolution to pave McBride St. with asphalt, between James and Ash Sts.

ATLANTIC CITY, N. J.—The Delaware River Quarry & Construction Co., Lambertville, N. J., was awarded a contract Oct. 3, at $56,993, for macadamizing on Pacific Ave. The itemized bids are given under Contract Prices. J. A. Hackney, Cy. Surv.; Edwards S. Lee, Chn. Com.

BAYONNE, N. J.—The council has awarded a contract to Rehill & Edwards, at $4,660, for grading on Ave. B.

GREENSBURG, PA.—A resolution has been passed by the council to pave Pennsylvania Ave. with brick, from West Pittsburg St. to Second St. F. V. B. Laird, Pres.; Ira C. Snyder, Cy. Clk.

JERSEY CITY, N. J.—Reports state that Chief Engineer Van Keuren and Chairman Nolan, of the street board, will urge the North Jersey St. Ry. Co. to pave between the tracks on Pavonia Ave.

NORRISTOWN, PA.—The highway committee has recommended that the terms of the Buffalo Pitts Co., Buffalo, N. Y., be accepted, for furnishing a road roller for $3,500, on 30 days' trial.

PHILADELPHIA, PA.—Bids are asked until Oct. 17 for about 720 sq. yds. of asphalt and 175 sq. yds. of concrete. Address Wm. H. Lambert, 395 City Hall.

READING, PA.—Bids are asked until Oct. 20 for 4,000 sq. yds. of asphalt paving and 1,000 lin. ft. of curbing, on South Fifth St. S. S. Hoff, Cy. Engr.

WASHINGTON, PA.—Geo. L. Walker, Burgess, informs us that it has been voted to issue $67,000 in bonds for paving, which will be done next spring. Geo. Jenkins, Engr.

WILLIAMSPORT, PA.—Bids are asked until 12 m., Oct. 13, for paving on West St. with brick, on 6-in. concrete foundation. Theo. Cornman, Cy. Clk.; H. C. Reeder, Deputy Cy. Engr.

HANOVER, PA.—An election will be held in a few weeks to vote on a proposition to borrow $50,000 for paving and highway improvements, according to reports.

OAKLAND, MD.—Bids are asked until Oct. 25 for the purchase of $13,000 of 4% street improvement bonds. R. S. Jamison, Mayor.

PETERSBURG, VA.—The proposed brick paving, etc., on Sycamore St., from Old St. to Washington St., is estimated to cost $14,330. N. T. Patterson, Pres.

ST. AUGUSTINE, FLA.—P. S. Amon, Cy. Clk., informs us that the council has appropriated an amount equal to the city's portion, for paving St. George St. with brick, a distance of about four blocks.

TAMPA, FLA.—Bids are asked until Oct. 25 for furnishing the material and paving about 28,895 sq. yds. with brick and for 14,500 ft. of granite curbing, as stated in our advertising columns. W. B. Henderson, Pres.; J. N. Hazlehurst, Ch. Engr.

MONTGOMERY, ALA.—Bids are asked until Oct. 17 for furnishing the material and setting stone curbing and surface sewers for six months. R. H. Sommerville, Treas.

CINCINNATI, O.—Bids are asked until Nov. 3 for constructing and repairing artificial stone sidewalks for one year. Geo. H. Spellmire, Clk. Bd. Cy. Affairs.

CINCINNATI, O.—Bids are asked until Nov. 7 for constructing and repairing of all plank sidewalks on the eastern and western districts for one year. Geo. H. Spellmire, Clk. Bd. Cy. Affairs.

CLEVELAND, O.—Bids are asked until Oct. 15 for grading and brick paving on Hickory Lane and four other streets, and until Oct. 29 for grading and Medina block paving on Willett and Quincy Sts. Geo. R. Warden, Dir. Pub. Wks.

CLEVELAND, O.—Bids are asked until Oct. 19 for furnishing and laying stone flagging on certain streets, and until Oct. 29 for grading, draining and paving portions of nine streets. Geo. R. Warden, Dir. Pub. Wks.

COLUMBUS, O.—Bids are asked until Oct. 18 for furnishing and constructing brick, asphalt and macadam pavement on Grant St., Wilson Ave., and Latta Ave., respectively. James A. Fanning, Clk. Bd. Pub. Wks.

TOLEDO, O.—Bids are asked until Oct. 24 for furnishing and constructing Buckeye brick pavement, etc., on 21st St., and until Nov. 7 for paving on Eastern Ave. with Buckeye brick, etc. L. P. Harris, Cy. Clk.——The council has passed ordinances for paving on Knower St. and one alley with Buckeye, Wassall blocks, etc., and constructing stone or brick sidewalks on Superior and Erie Sts.

URBANA, O.—The council has resolved to lay brick sidewalks on Dugan and Kenton Sts.

HUNTINGTON, IND.—Bids are asked until Oct. 25 for furnishing the material and constructing 6-ft. brick sidewalks on Washington St. and one alley. Frank Guthrie, Cy. Engr.

IRVINGTON, IND.—Bids are asked until Oct. 29 for grading and constructing cement sidewalks on Irvington Ave. John V. Coyner, Cy. Engr.

NEW ALBANY, IND.—We are informed that the question of constructing a turnpike to Bridgeport, a distance of 10 miles, is still in contemplation, and will be determined in a few days. Harry Vance, County Audr.; E. B. Coolman, County Surveyor.

RICHMOND, IND.—Bids are asked until 2 p. m., Oct. 14, for grading, gravelling and setting curb and gutter on North D St., between 15th and 16th Sts. Geo. J. Knollenberg, Clk.

TERRE HAUTE, IND.—Bids are asked by the council until Nov. 1 for concrete and brick sidewalks and grading in certain streets.

DETROIT, MICH.—Bids are asked until Oct. 15 for furnishing and laying about 1,251 sq. yds. of cobble paving and for 621 yds. of excavation. D. W. H. Moreland, Pres. Bd. Pub. Wks.

GRAND RAPIDS, MICH.—Geo. W. Ames, Cy. Engr., has submitted estimates for the proposed paving of Canal St.; with asphalt, $18,625; brick, $13,250.

SAGINAW, MICH.—Resolutions have been passed by the council for constructing numerous sidewalks.

CARTHAGE, ILL.—Thos. S. McLanahan, Monmouth, Ill., is preparing plans and specifications for the improvement of the streets around the public square, and Main St. from the square to the depot, in Carthage, by paving them with brick; requiring about 25,735 sq. yds. brick and 16,420 lin. ft. of curbing and excavating about 9,000 cu. yds. Total distance about one mile, 30 ft. wide. Bids will soon be asked. Address Thos. S. McLanahan.

CHICAGO, ILL.—Bids are asked until Oct. 14 for asphalt, brick, granite and macadam paving, according to reports. L. E. McGann, Pres. Bd. Local Improvements.

QUINCY, ILL.—F. Grover, County Engr., has estimated the cost of the proposed Missouri Road at $12,000. A meeting was held Oct. 4 to consider the plans, according to reports.

OSKALOOSA, IA.—S. Ver Veer, Cy. Engr., advises us that about 1½ miles of brick paving will probably be laid next year. He states that a similar amount has been laid during the past season.

ST. PAUL, MINN.—The county commissioners are considering the question of constructing new roads.

ST. PAUL, MINN.—Bids are asked until Oct. 17 for improving Feronia and Dewey Aves. C. H. Bronson, Clk. Bd. Pub. Wks.

OMAHA, NEB.—Bids are asked until 2 p. m., Oct. 14, for grading 33d St., from Davenport St. to Chicago St. Andrew Rosewater, Chn. Bd. Pub. Wks.

ST. JOSEPH, MO.—Bids are asked until Oct. 20 for repairing 15 sections of road. Theo. Steinacker, County Surveyor.——Bids will soon be asked by the council for paving Seventh St. with asphalt from Robidoux to Olive St.

MANUFACTURING PLANTS.

MILFORD, ME.—It is reported that J. Fred Webster contemplates the erection of a large pulp and paper mill at Milford, near the plant of the Bodwell Water Power Co.

COHOES, N. Y.—The J. H. Murphy Mfg. Co. has been incorporated, with a capital stock of $150,000, to establish a plant for the manufacture of knit goods. The machinery has not yet been secured.

NIAGARA FALLS, N. Y.—Reports state that the Union Carbide Co. has made a contract with the Niagara Falls Power Co. for additional 6,000 HP., and that this will necessitate the construction of a new plant to cost about $150,000.

HOMESTEAD, PA.—The Penn Bridge Co., of Beaver Falls, Pa., is reported to have received the contract for erecting the ingot-mold buildings for the Leechburg Foundry & Machine Co., of Pittsburg, which expects to remove its plant from Leechburg to Homestead.

READING, PA.—J. S. Koch has been awarded the contract for erecting a machine shop for the Carpenter Steel Works, 36x136 ft., with a 40-ft. L. Besides this, the new annex will include a crusher, laboratory, etc., to cost about $200,000.

BROOKVILLE, PA.—George W. Sykes, of Reynoldsville, and Levi Heidrick, of Brookville, will build a woolen mill at this place, to employ 100 men and cost $50,000, according to reports. Other capitalists are expected to establish a kindling wood factory, while a paper mill is among the possibilities.

RICHMOND, VA.—It is reported that the Richmond Locomotive & Machine Works contemplates the establishment of a steel plant in connection with its already extensive plant in this city.

CHINA GROVE, N. C.—The erection of a new cotton spinning mill at this place is contemplated by a company of local business men. It is said that the machinery, and probably an electric light plant, will soon be contracted for.

WELDON, N.C.—A company was incorporated Oct. 1 with a capital stock of $50,000, by W. E. Daniel, W. A. Pierce, W. T. Shaw, and others, to build and operate a large fireproof knitting mill on the Roanoke River, near Weldon.

SALUDA, S. C.—Reports state that a 7,000-spindle cotton mill will soon be started at this place by Alvin Estheridge, of Saluda, and W. S. Howland. Contracts have not yet been awarded.

CLARKSVILLE, TENN.—A fire in this city Oct. 5 destroyed the Grange tobacco warehouse, containing 4,500 hogsheads of tobacco; the Louisville & Nashville Ry. station, six freight cars, and Geacey Bros.' coal and storage shed. Total loss, over $400,000; insurance, about $300,000.

WINSTON, N. C.—Reports state that a company has recently bought 1,700 building lots in the suburbs of this city, and that it proposes to build a number of small manufacturing plants and cottages for the operators.

CLIO, S. C.—The Red Bluff Cotton Mills Co. has doubled the capacity of its plant, and will buy new machinery, according to reports.

YORKVILLE, S. C.—W. N. Ashe and others contemplate the erection of a new cotton mill here, near the present plant, to have a capacity of about 10,000 spindles.

OWOSSO, MICH.—Reports state that L. E. Woodward, whose factory was burned recently, has promised to erect a $100,000 plant, if the town would grant him a bonus of $20,000.

YPSILANTI, MICH.—The mill of the Peninsula Paper Co. was burned Sept. 28, causing a reported loss of $80,000.

SOUTH MILWAUKEE, WIS.—The United States Glue Co. has had plans prepared for its new glue factory to be erected near South Milwaukee, at a cost of about $110,000. Reports state that Paul Riesen has the masonry contract; Hansell & Elcock Foundry Co., of Chicago, the iron contract. Work is expected to be completed by Jan. 1.

GAS PLANTS.

SARATOGA SPRINGS, N. Y.—The board of street commissioners has received an application from Albert L. Judson, Albany, for a franchise for an electric light and gas plant.

TYRONE, PA.—The council has passed a resolution to purchase the gas and electric lighting plant of the Tyrone Gas & Water Co., for $90,000.

WILMINGTON, DEL.—The Wilmington Coal Gas Co. will increase the capital stock from $550,000 to $600,000, for the enlargement and improvement of the works and the extension of the mains. Edward Betts, Pres.

BIRMINGHAM, ALA.—Reports state that an opportunity is now open to any party who desires to establish a gas plant. The franchise which was awarded to Messrs. London and Haas has been annulled. Walter Moore, J. J. Altman and R. H. Kerr, Com.

FRESNO, CAL.—The Fresno Gas Co. will take up the 4-in. mains on Mariposa St. and substitute 8-in. mains. It is also the intention of the company to put in 8-in. pipes in the place of the 4-in. on K St., between Fresno and Tulare. Other improvements are talked of, according to reports.

MISCELLANEOUS CONTRACTS.

CULVERTS.—Jamestown, N. Y.—Bids are asked until Oct. 15 for building two stone culverts. C. P. Carlson, Chn. Com. Bd. Pub. Wks.

LIMESTONE.—Binghamton, N. Y.—The Helderberg Cement Co., Howe Cave, N. Y., has been awarded a contract to furnish 4,000 tons of limestone.

BREAKWATER.—Ellensburg, Wash.—Bids are asked until 10 p. m., Oct. 14, for constructing a breakwater across the Teanaway River. S. T. Sterling, County Clk.

RIVER WORK.—Maple Rapids, Mich.—Reports state that a contract has been awarded to Charles Kerr, Ashley, Mich., at about $40,000 for improving the Maple River.

DREDGING.—Boston Harbor, Mass.—The harbor and land commissioners have awarded a contract to Simon Hess, New York, at $29,990, for dredging in the south bay.

DREDGING.—Brooklyn Navy Yard, N. Y.—Bids are asked until Oct. 22 for dredging at the Brooklyn navy yard. M. T. Endicott, Ch. Bureau Yds. and Docks, Washington, D. C.

FIRE ENGINE.—Averill Park, N. Y.—Andrew Knowlson has been appointed chairman of a committee to ascertain the prices of fire engines, and to select a suitable site for an engine house.

COAL CONVEYORS.—Buffalo, N. Y.—The board of public works has received but one bid; that of the Aultman Co., Canton, O., at $16,800, for furnishing coal conveyors of a daily capacity of 200 tons.

CREMATORY.—Los Gatos, Cal.—Plans are being prepared, according to reports, for a crematory for the cemetery at Los Gatos, including a chapel, to cost about $60,000. Arch., T. P. Ross, Columbian Bldg., San Francisco, Cal.

CHIMNEYS.—Buffalo, N. Y.—Bids are asked by the department of public works until Oct. 20 for constructing three brick chimneys, each 8 ft. in diameter and 225 ft. in height, including necessary flues, changes of boilers, etc.

REMOVING WRECK.—Rockland Harbor, Me.—Bids are asked until Nov. 14 for removing the wreck of the schooner "William H. Jones," including cargo, as stated in our advertising columns. Maj. R. L. Hoxie, U. S. Engr., Portland, Me.

DRY DOCK.—Algiers, La.—Bids are asked until Oct. 31 (postponement from Oct. 21) for a combined floating and gravity steel dry dock, with shore connections and appurtenances. Mordecai T. Endicott, Ch. of Bureau of Yards and Docks, Washington, D. C.

DRAINAGE.—Harvel, Ill.—Bids are asked by the commissioners of Union Drainage District No. 2 of Kings and Harvel townships until Oct. 22 for the construction and improvement of a number of drains, requiring the excavation of about 108,167 cu. yds. of material; 26 bridges, and approximately 16,935 ft. of 8, 10 and 12-in. tiles. Engr., J. W. Dappert, Taylorville, Ill.

HOISTING ENGINES.—Buffalo, N. Y.—The following bids have been received by the board of public works for furnishing hoisting engines: American Hoist & Derrick Co., $1,360 for No. 90; $1,000 for No. 18; Lake Erie Boiler Works, hoisting engines, $2,500; S. Flory Manufacturing Co., Bangor, Pa., $915; Dobbie Foundry & Machine Co., $1,021 and $1,440, or $1,656 and $2,280.

HEATING AND PURIFYING APPARATUS.—Buffalo, N. Y.—Bids have been received by the board of public works for heating and purifying apparatus, for 34 boilers, in groups; from the following: Hoppes Manufacturing Co., Springfield, O., $14,440; Iribacker & Sons, $8,743; Fuel Economizer Co., Matteawan, N. Y., six fuel economizers, $22,500; Manchester Manufacturing Co., North Manchester, Ind., $5,500; Robert Learmouth, $9,192; C. C. Peck, $5,500, or $3,225, or $4,000.

CONDUITS.—Erie, Pa.—The following bids were received Sept. 26, 1898, for 3-in. conduit laterals in 9th St. and in South Park Row: George B. Kelley, 9½ cts. a ft. in 9-duct conduits; J. McCormick & Son, 10½ cts.; Kraft & Walther, 7 7-10 cts.; Mayer Bros., 9½ cts. There were various other bids for 16 and 32-duct conduits and for the manholes, service boxes and 3-in. wrought iron pipe. Camp ducts, like those in use in the present conduit, were specified and others bid for either that material or corrugated wood.

IMPROVING RESERVOIR.—Albany, N. Y.—The following bids were received Sept. 20 for improving the Bleecker reservoir, as advertised in Engineering News; E. M. Haines & Co. awarded contract; Supt. Water-Works, George I. Bailey:

Bids Received at Albany, N. Y., Sept. 20, 1898, for Improving the Bleecker Reservoir.

Quantities.		E. M. Haines & Co., Rhinebeck, N. Y.	J. Dunfee & Co., Syracuse, N. Y.	John Doyle, Albany, N. Y.	Frank Pidgeon, Saugerties, N. Y.	Dollard & Holler, Albany, N. Y.	Michael J. Dady, Brooklyn, N. Y.	R. B. Lewis, Herkimer, N. Y.
Bailing and draining		$7,500	$5,950	$4,500	$8,000	$6,904	$7,150	$7,500
Excavation	14,500 cu. yds.	.38	.51½	.55	.40	.53	.50	.60
Excavation for water pipes	2,000 " "	.35	.31	.75	1.00	.50	.40	.50
Procuring and puddling	150 " "	.60	.99	3.00	1.50	1.44	1.00	1.50
Concrete masonry	1,000 " "	7.00	6.15	6.00	6.50	4.92	6.25	8.00
Brick masonry	40 " "	8.50	10.00	9.00	10.00	10.09	15.00	12.00
Coping	25 " "	12.00	25.00	35.00	25.00	60.51	25.00	15.00
Foundation timber	20,000 ft. B.M.	24.00	18.00	15.00	25.00	17.60	25.00	25.00
Sheet piling	13,000 " "	24.00	25.00	17.50	28.00	17.60	25.00	40.00
Gutter tile	720 lin. ft.	.25	.15	.25	.50	.21	.50	.30
12-in. drain pipe	70 " "	.30	.45	1.35	.50	.30	1.00	.50
12-in. water pipe	680 " "	1.10	1.09	1.35	1.75	.99	1.50	1.00
16-in. water pipe	80 " "	1.65	2.49	2.30	1.85	1.38	2.00	4.00
30-in. water pipe	1,100 " "	4.15	4.23	5.25	3.70	5.92	5.70	5.00
Setting 12-in. valve and box	3 each	13.00	21.00	5.00	4.00	4.00	15.00	3.00
Placing 30-in. valves	4 "	100.00	90.00	15.00	6.00	7.50	100.00	27.00
Placing 30-in. sluice gates	3 "	25.00	95.00	20.00	15.00	10.00	100.00	25.00
Manhole covers	4 "	7.00	9.95	15.00	15.00	12.00	25.00	15.00
Cast-iron grating	600 lbs.	.02¼	.05¼	.05	.04	.05	.04	.10
Gas pipe railing	75 lin. ft.	.30	1.15	1.50	.74	1.16	1.00	.50
Total		$28,456	$28,644	$29,677	$30,438	$30,926	$32,874	$34,393

ROADS.—Boston, Mass.—The following contracts were let Sept. 15, 1898, by the Massachusetts State Highway Commission, for constructing roads in Philipston, Uxbridge and Townsend, Mass.; Secy., A. B. Fletcher: Phillipston—J. J. Welch & Co., Salem, Mass.—Excavation, 1,160 cu. yds., 30 cts. a cu. yd.; excavation, borrow, 500 cu. yds., 40 cts.; ledge excavation, 115 cu. yds., $2.00; rubble masonry laid dry, 25 cu. yds., $4.00; rubble masonry laid in cement, 24 cu. yds., $7.00; gravel, 335 cu. yds., 50 cts.; Telford, 100 sq. yds., 35 cts.; shaping, 6,904 sq. yds., 2 cts.; broken stone in place, 1,657 tons, $1.39; 12-in. vitrified clay pipe, 30 lin. ft., 60 cts.; fencing used as guard rail, 650 ft., 15 cts.; side drains, 100 ft., 35 cts.; stone monuments, 10, each, $1.50; 24-in., vitrified clay pipe, 60 lin. ft., $2.00; total, $3,975. Uxbridge—H. H Pike and E. E. Eames, Paxton, Mass.—Excavation, 1,110 cu. yds., 32 cts.; ledge excavation, 10 cu. yds., $1.50; rubble masonry laid dry, 34 cu. yds., $3.00 rubble masonry laid in cement, 30 cu. yds., $7.00; gravel, 363 cu. yds., 46 cts.; Telford, 100 sq. yds., 30 cts.; shaping, 7,360 sq. yds., 1.5 cts.; broken stone in place, 1,766 tons, $1.28; 12-in. vitrified clay pipe, 100 lin. ft., 60 cts.; fencing used as guard rail, 250 ft., 15 cts.; side drains, 600 ft., 26 cts.; stone monuments, 14, each, $1.50; total, $3,525. Townsend—C. H. Kelleher, Newburyport, Mass.—Excavation, 1,064 cu. yds., 30 cts.; ledge excavation, 10 cu. yds., $2.50; rubble masonry laid dry, 10 cu. yds., $4.50; rubble masonry laid in cement, 6 cu. yds., $8.00; gravel, 100 cu. yds., 60 cts.; Telford, 100 sq. yds., 35 cts.; shaping, 8,369 sq. yds., 2 cts.; broken stone in place, 2,030 tons, $1.35; 12-in. vitrified clay pipe, 140 lin. ft., 60 cts.; fencing used as guard rail, 50 ft., 20 cts.; side drains, 100 ft., 30 cts.; stone monuments, 15, each, $2.00; total, $3,594. Extra work at following prices: Materials at cost; foremen, 40 cts. per hour; masons, 35 cts.; masons' helpers, 20 cts.; laborers, 16⅔ cts.; double teams and drivers, 45 cts. an hour; single teams and drivers, 30 cts.

PAVING.—Atlantic City, N. J.—The following bids were received Oct. 3 for brick paving and for 6-in. macadam paving on a 4-in. gravel foundation in Pacific Ave., as advertised in Engineering News; contract awarded the Delaware River Quarry & Construction Co.; Cy. Surv., J. W. Hackney:

Bids Received at Atlantic City, N. J., Oct. 3, 1898, for Brick and Macadam Paving.

Bidder.	Macadam, 42,086 sq. yds.	Vitrified brick, 11,165 sq. yds.	Concrete, 304 cu. yds.	Curb—Straight, 21,744 lin. ft.	Curb—Curved, 2,826 lin. ft.	Resetting, 100 lin. ft.	Total.
Del. River Quarry & Construction Co., Lambertville, N.J..	$0.62	$1.75	$4.50	$0.38	$0.60	$0.05	$56,963
Dennis Roe, Trenton, N. J.	.63	2.05	4.49	.39	.77	.03	61,427
J. B. Reilly & Co., Atlantic City, N. J.	.69	2.09	4.50	.35	.54	.04	62,883
Kennedy, Crossan & Co., Philadelphia, Pa.	.73	2.47	5.90	.355	.50	.10	63,879
Connell & McCann, New York, N. Y.	.67	2.25	5.00	.35	.60	.05	64,363
Thomas J. McGovern, Trenton, N. J.	.69	2.25	6.00	.40	.60	1.00	66,448
Alcatraz Paving Co., Philadelphia, Pa.	.79	2.00	4.75	.37	.55	.10	66,632
Fred T. Ley & Co., Springfield, Mass.	.73	1.87	4.25	.43	.57	.25	69,236
Michael J. Dady, Brooklyn, N. Y.	.81	2.23	5.00	.35	.65	.10	69,965
David McMahon & Co., Philadelphia, Pa.	1.10	2.05	4.49	.39	.77	.03	81,924
Frank Pidgeon, Saugerties, N. Y.	1.05	2.59	6.50	.58	.95	.20	90,400

TELEPHONE WORK.—Bristol, R. I.—The Providence Telephone Co. has applied for permission to lay underground wires between Union and Washington Sts. Councilmen Church, Mason and Thompson may be addressed.

ICE SHIELDS.—Buffalo, N. Y.—The board of public works received the following bids Sept. 29 for furnishing ice shields for the inlet pier: Hingston & Woods, $8,200; Joseph J. Churchyard, $8,490; Lake Erie Boiler Works, $17,195; Buffalo Dredging Co., $9,600.

TUNNEL.—Boston, Mass.—The following bids were received Oct. 10 for the construction of the tunnel at the East Cambridge registry of deeds building: Richard Falvey, $7,833; Cyrus Bartan, $10,400; C. E. Trumbull, $8,500; P. T. Carter, $9,300; James Wilkinson, $5,800; G. C. Emmerson, $9,456.40; Charles McMahon, $7,970; Henry, McGahey, $8,833; I. C. Harris & Co., $8,300; Jarvis Engineering Co., $7,777; A. H. Kittredge, $8,014; Connors Bros., $7,895; Albert Eichorn, $10,987; Gustavius Co., $8,500.

CONTRACT PRICES.

STREET SIGNS.—St. Paul, Minn.—The following bids were received by the board of public works Oct. 3 for furnishing 1,200 street signs to be placed at street intersections which are illuminated with electric lights: Caesar Bros., New York, 30 cts. for both 24 and 26-in. signs; total cost, $360; C. Neuman, St. Paul, 33 and 35 cts. each; Thompson Paint Co., St. Paul, 55 and 60 cts.; F. M. Bendick & Co., Chicago, 39½ cts., both sizes; Noyes Bros. & Cutler, St. Paul, 35 and 36 cts.; Enamel Iron Co., Beaver Falls, Pa., 33 cts., both sizes; M. N. Webber, St. Paul, 47 and 50 cts.; T. R. Wilwerscheid, St. Paul, 37½ cts. both sizes; St. Louis Enamel Iron Co., 42 cts., both sizes. Clk., C. H. Bronson.

ASPHALT PAVING.—Niagara Falls, N. Y.—S. F. Arkush, Cy. Clk., writes us that the following bid was received Sept. 30, 1898, for asphalt paving: Barber Asphalt Paving Co., Buffalo, N. Y., pavement, 1,200 sq. yds., $2.44; excavation, 75 cu. yds., $1.50; overhaul 50 cu. yds., 2 cts.; sewer connections, 100 ft., $1.50; water connections, 100 ft., 90 cts.; gas connections, 100 ft., 25 cts.; trenches, 20 rock excavations, $3.50; $3,302.

SEWER WORK.—Steubenville, O.—Floto Bros. were awarded the contract Sept. 20 for the new sewer at Calligan's crossing by the Commissioners as follows: Hauling 48-in. pipe 12 ft. long, weight 7,200 lbs., from Mingo to Calligan's, piece $3; excavating and filling a cu. yd., 34 cts.; laying the pipe a lin. ft., 28 cts.; hauling 30-in. pipe by 12-ft. long, weight 3,000 lbs., to Mingo flour mill, $1.50 each; excavating and filling, 34 cts.; laying 30-in. pipe, 17 cts. a lin. ft. Castner Bros'. bid was as follows: Hauling 48-in. pipe, $7.75 a joint; excavation, 40 cts. a cu. yd. Hauling 30-in. pipe, $4.50 a joint.

FLOOD GATES.—Dayton, O.—The following bids were received Oct. 3, 1898, for furnishing and placing flood gates on the canal at the Apple St. sewer; Comptroller J. E. Gimperling:

Quantities.			O'Connor & Kirchner.	Bruno Ritty.
Masonry (limestone)	191.5 perches.		$6.50	$8.50
Rubble masonry	80 "		4.15	4.50
Canal gates	—	each	265.00	300.00
Sewer gate	—	"	995.00	1,125.00
Foundation timber	16,027	ft. B.M.	20.00	24.00
Total			$3,157.29	$3,797.40

INDUSTRIAL NOTES.

MR. L. WILSON, 53 Dearborn St., Chicago, has the contract to sink an artesian well for the Piano Co., West Pullman, Ill.

THE AMERICAN ELECTRICAL & MAINTENANCE CO., 451 Greenwich St., New York, went into the hands of receivers, Oct. 7. Liabilities, $35,199; nominal assets, $29,126. Alfred K. Warren and Francis Higgins were appointed receivers.

THE BERLIN IRON BRIDGE CO., East Berlin, Conn., is furnishing the steel roof for one of the store houses of the Laflin & Rand Powder Co., Pompton, N. J. The building is 45 × 150 ft., with roof trusses of steel covered with corrugated iron supported on steel purlins.

THE Q & C COMPANY, Chicago, announces that the Dustless Roadbed Co., of Philadelphia, has placed its entire business in the hands of the Q & C Co. This company has already treated several hundred miles of track with oil and the Q & C Co. is now negotiating for large additional quantities.

THE RUSSELL SNOW-PLOW CO., Tremont Bldg., Boston, Mass., reports that it has an order for a Russell wing elevator snow plow, size No. 2, from each of the following lines: Grand Rapids & Indiana Ry.; Chicago & West Michigan Ry., and Detroit, Grand Rapids & Western R. R. The plows for the last two named roads are to have the Russell air flanger added to the same and are also to be equipped with Westinghouse air brakes.

THE AMERICAN WOOD PRESERVING CO., Philadelphia, has just received an order from the New York Central & Hudson River R. R. Co. for several hundred gallons of moss green "Woodiline stains," for use on roofs. The company now makes a stain, using the wood preservative "Woodiline" as a basis, and the penetrative qualities of the preservative united with coloring matter combines to make the color more permanent, it is claimed, than in other stains. It has been used in exposed places on the sea coast especially since December, 1895, on the cottage of Mr. Wilson Brown, Superintendent of the South Amboy Division of the Pennsylvania R. R., at Seaside Park, N. J.

THE RISDON IRON & LOCOMOTIVE WORKS, San Francisco, Cal., are building gold dredges that will handle 2,000 cu. yds. of gravel a day at a depth of 50 ft. below water, and at a cost, it is claimed, of 3 cts a cu. yd. The company has recently built an Evans elevator at Breckenridge, Colo., for use in placer mining where water under pressure is available and facilities for a gravity dump do not exist. It will handle 2,000 cu. yds. of gravel a day, being sunk 43 ft. to bed rock and working under a pressure of 145 ft. at the surface. The first elevator was so satisfactory, it is stated, that a second one has been built. The Alaska Treadwell Mill of 240 stamps, which is said to crush 250,000 tons of ore a year, at a cost of 35 cts. a ton and a 3,500-HP. hoisting engine for the Washoe Copper Co., Butte, Mont., are among some of the orders filled by the company.

LES USINES CLEMENT is the name of a company which has been organized in France to build American motor vehicles and chainless bicycles. A large plant, the main building of which is 400 × 800 ft., has just been completed at Levallois-on-the-Seine, directly outside of the fortifications of Paris. In this building will be installed, it is stated, several hundred thousand dollars' worth of American machine tools, of which about $100,000 worth is now open for bids. The machinery will all be operated by electricity and two 500-HP. engines have already been purchased in Europe for the purpose and will be direct-connected to dynamos, one of which will be situated at the end of each line of shafting. The motor vehicles to be manufactured will be of the gasoline and electric types. Mr. Hart O. Berg, formerly Manager of the Colt's Patent Firearms Co., Hartford, Conn., will be the General Manager, and Mr. A. F. Bardwell, Superintendent of the motor carriage department of the Pope Mfg. Co., Hartford, will be the General Superintendent. The Superintendent of the Machine Shop will be Mr. R. C. Lewis, who has been the Manufacturing Superintendent of the Yale & Towne Mfg. Co., Stamford, Conn. It is stated that the only connection which the Pope Mfg. Co. will have with the French company is that the former is to receive a royalty on its patents, which will be used.

Mail Delivery Notice.

Special efforts are made to deliver our paper to its readers each week at the earliest possible moment. The largest binding and mailing establishment in New York begins work on Engineering News early each Wednesday evening, and all papers for Boston, Philadelphia and Washington are usually in the New York post-office by midnight; all Brooklyn and New York city papers by 3 o'clock—in ample time for the first delivery Thursday morning. The entire edition, including foreign copies, is in the mail soon after 6 o'clock Thursday morning. If your paper is not received promptly we advise that you make a complaint to your local post-office officials.

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